



EVERYDAY SCIENCE

1. As compared to proton, mass of neutron is
a) 10 % greater b) 5 % greater c) 1 % greater d) 0.1 % greater
2. SI units for energy and work are
a) Joules and kg b) Joules and meter c) Joules and Newton d) Joules
3. Photo diode is used for detection of
a) visible light b) invisible light c) no light d) both a and b
4. Who is credited with the development of polio vaccine?
a) Linus Pauling b) Jonas Salk c) Melvin Calvin d) Selman Waksman
5. Penicillin is widely used as
a) an antiseptic b) a disinfectant c) an antibiotic d) an insecticide
6. Non stick cooking utensils are coated with
a) Teflon b) PVC c) black paint d) polystyrene
7. Carbon, diamond and graphite are together called
a) Allotropes b) isomers c) isomorphs d) isotopes
8. Which of the following was to be discovered first in the chromospheres of the sun?
a) Krypton b) xenon c) neon d) helium
9. The element which is required by the plant in large quantity
a) Nitrogen b) calcium c) sulphur d) phosphorus
10. Flower less plants are termed as
a) Cryptogams b) thallophytes c) bryophytes d) phanerogames

GENERAL STUDIES

11. In which state "KanyaVidyadhanYojana" is operational?
a) Uttar Pradesh b) Madhya Pradesh c) Rajasthan d) Haryana
12. In February 2017, which country created history by launching record 104 satellites in space in a single mission?
a) China b) USA c) India d) France
13. Which of the following rights was considered by Dr.Ambedkar as the "Heart and Soul" of the Indian Constitution?
a) Right to Equality b) Right to Freedom of Religion
c) Right to Freedom of Speech d) Right to Constitutional Remedies
14. The first heart transplant operation was performed in
a) USA b) Canada c) South Africa d) UK
15. From which language is the word "alphabet" derived?
a) Greek b) French c) German d) Latin
16. Which of the following is the world's oldest capital city?
a) Canberra b) Damascus c) Oslo d) Accra
17. Who is the highest law officer of a State?
a) Attorney General b) Secretary General, Law Department c) Advocate General d) Solicitor General
18. The Olympic Flame symbolises
a) Speed, perfection and strength b) unity among various nations of the world
c) Continuity between the ancient and modern games
d) sports as a means of securing harmony among the nations
19. What is the minimum age required to become Prime Minister of India?
a) 18 year b) 21 year c) 25 years d) 35 years
20. Which one of the following articles provides "Right to Equality"?
a) Article -14 b) Article -19 c) Article-20 d) Article -18

CURRENT AFFAIRS

21. _____ is the head of 15th Finance Commission
a) N.K. Singh b) Nazeem Zaidi c) Sanjeev Arora d) Suresh Prabhu
22. International Investors Summit was held at
a) Bangalore b) Chennai c) Rajasthan d) Hydrabad
23. The country going to host Commonwealth games is _____
a) India b) Australia c) China d) Japan
24. _____ is the first woman to be appointed as pilot in Indian Navy(for war airplane)
a) Subhangi Swaroop b) Rupa c) Maya d) Asta Sehgal
25. _____ is appointed the chief of Air India
a) Sakthi Kantha Das b) Nitin Gadkari c) Pradeep Singh Karola d) Amith Shah
26. _____ won the gold medal in "International weight lifting" competition
a) P.T. Usha b) Shiny Wilson c) Sai Kom Meerabai Sanu d) Vijay Sharma
27. Asian Archery competition was held at _____
a) Islamabad b) Dacca c) New Delhi d) Katmandu
28. Out of six judges appointed to Madras High Court, how many are women?
a) 5 b) 4 c) 2 d) 3
29. _____ Bank has introduced an APP called "Nanban"
a) Canara Bank b) Bank of India c) Indian Bank d) Indian Overseas Bank
30. _____ is crowned as Miss World 2017
a) Manushi Sillar b) Aiswarya Rai c) Susmita Sen d) Priyanka Chopra

QUANTITATIVE APTITUDE

31. The average age of eight boys is 16 years. If the age of one more boy is added to it, the average age increases by 1 year. What is the age of that boy?
a) 20 years b) 24 years c) 25 years d) 18 years
32. A 120m-long train crosses a 30m-long bridge in 7.5 seconds. What is the speed of that train in km/h?
a) 45 km/h b) 54 km/h c) 72 km/h d) 90 km/h
33. A canteen requires 14 dozen eggs per day. How many eggs will it require for 7 weeks?
a) 8464 b) 8232 c) 8668 d) 8824
34. The cost of 2 rings and 4 bangles is Rs. 2, 54,550. What would be the cost of 6 rings and 12 bangles?
a) Rs. 10, 18,200 b) Rs. 7, 63,650 c) Rs. 5, 09,100 d) cannot be determined
35. A canteen requires 28 kgs. of sugar for a week. How many kgs. of sugar will it require for the month of March and April ?
a) 248 kgs b) 240 kgs c) 250 kgs d) None of these
36. A car covers a distance of 744 kms. in 12 hours. What is the speed of the car in kms/hr?
a) 62 b) 58 c) 65 d) 60
37. Which is the largest fraction among the following?
a) $\frac{21}{23}$ b) $\frac{12}{13}$ c) $\frac{23}{25}$ d) $\frac{24}{25}$
38. Amar started a business, investing Rs 64000. Six months later, Ajay joined with Rs 48000. In what ratio should the profit they earned be distributed at the end of year?
a) 8:5 b) 8:3 c) 4:1 d) 5:3
39. A 129m long train crosses a 39m long platform in 14 seconds. What is its speed?
a) 41 km/h b) 43.2 km/h c) 44.5 km/h d) 45 km/h
40. Among 48 students each contributes Rs 38 to the amount to buy new books for a library. If 4 students drop out, how much additional amount does each student have to pay ?
a) Rs 2.25 b) Rs 3.2 c) Rs 3.45 d) Rs 4.5

TEST OF REASONING

41. 'Bank' is related to 'money' in the same way as "transport" is related to
a) Goods b) Road c) Movement d) Traffic
42. Find the odd-man out ? a)PSRQ b)CGEF c)JMLK d) VYXW
43. In a code language '24631' stands for 'GREAT' and '5897' stands for 'MONK'. Then, what does the number '84712' stands for in the same code language ?
a) OGKAE b) ORKTG c) ORATG d) OGKTK
44. A watch reads 4.30 am. If the minute hand points East, in what direction will the hour hand point ?
a) East b) North-East c) West d) South-East
45. 2, 9, 28, 65, _____
a) 121 b) 195 c) 126 d) 103
46. A _ _ _ EAB _ D _ B _ _ B _
a) BCDCAAA b) BCDBEA c) BCABAD d) BCABC
47. A man said to a lady "your mother's husband's sister is my aunt". How is the lady related to the man?
a) Daughter b) Sister c) Mother d) Aunt
48. Logical Arrangement : 1)Protect 2)Pressure 3)Relief 4)Rain 5)Flood
a) 1,2,3,4,5 b) 2,4,5,1,3 c) 3,4,2,1,5 d) 2,3,1,5,4.
49. Choose the related day from the given alternatives : Monday: Saturday: Thursday: ?
a) Wednesday b) Friday c) Tuesday d) Sunday.
50. Among five persons, Mohan is taller than Gowtham, but not as tall as Ramesh. Sakthi is taller than Divya, but shorter than Jothi, and Jothi is shorter than Gowtham, who is the tallest in the group?
a) Ramesh b) Jothi c) Mohan d) None of these

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ANSWERS (GK 1)

<u>EVERYDAY SCIENCE:</u>	1.D	2.D	3.D	4.B	5.C	6.A	7.A	8.D	9.A	10.A
<u>GENERAL STUDIES:</u>	11.A	12.C	13.D	14.A	15.D	16.C	17.A	18.C	19.C	20.A
<u>CURRENT AFFAIRS:</u>	21.A	22.D	23.B	24.A	25.C	26.C	27.B	28.D	29.D	30.A
<u>QUANTITATIVE APTITUDE:</u>	31.C	32.C	33.B	34.B	35.D	36.A	37.D	38.B	39.B	40.C

31. Answer : Option C

Explanation :

Age of 8 boys = $16 \times 8 = 128$ years

Age of total $8 + 1 = 9$ boys

= $(16 + 1) \times 9 = 153$ years

∴ Age of 9th boy = $153 - 128 = 25$ years

32. Answer : Option C

Explanation :

Speed = Distance/ Time = $120+30/7.5$

= $150/7.5 = 20$ m/s = $20 \times 3600/1000 = 20 \times 18 /5 = 72$ km/h

33. Answer & Explanation

Answer : Option B

Explanation :

Number of eggs

= $14 \times 12 \times 7 \times 7 = 8232$

34. Answer : Option B

Explanation :

Let the CP of one ring = Rs. x

and that of one bangle = Rs.y

According to the question,

$2x + 4y = \text{Rs. } 254550$

Multiplying both sides by 3,

$6x + 12y = 3 \times 254550 = \text{Rs. } 763650$

35. Answer : Option D

Explanation :

Number of days in the months of March and April

= $31 + 30 = 61$

Because, Required of sugar in 7 days = 28 kg

∴ Requirement of sugar in 61 days = $28/7 \times 61 = 244$ kg

36. Answer : Option A

Explanation :

Speed of car

= Distance covered/Time taken

= $744/12 = 62$ kmph.

37. Answer : Option D

Explanation :

$21/23 = 0.913$,

$12/13 = 0.923$

$23/25 = 0.92$,

$21/22 = 0.9545$,

$24/25 = 0.96$

38. Answer : Option B

Explanation :

Ratio = $64000 \times 12 : 48000 \times 6$

= $768000 : 288000 = 8 : 3$

39. Answer : Option B

Explanation :

Speed = $129 \times 39/14 = 168/14$ ms

= $168/14 \times 18/5 = 43.2$ kmh

40. Answer : Option C

Explanation :

Total amount = $38 \times 48 = 1824$

Amount paid by 44 (48 - 4) students

= $44 \times 38 = 1672$

Difference = $1824 - 1672 = 152$

Therefore, Additional amount = $152/44 = 3.45$

<u>TEST OF REASONING:</u>	41.A	42.B	43.B	44.B	45.C	46.A	47.B	48.B	49.C	50.A
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45. C $(1)^3+1=2, (2)^3+1=9, \dots, (5)^3+1=126.$



EVERYDAY SCIENCE

1. A camera uses a _____ to form an image on a piece of film at the back.
(A) convex lens (B) concave lens (C) diverging lens (D) none of these
2. The distance of Moon from the Earth is _____ km.
(A) 364,000 (B) 384,000 (C) 464,000 (D) 484,000
3. Ink spreads in water because of ?
(A) Vapour pressure (B) Dipole movement (C) Diffusion (D) Osmosis
4. When milk is converted into curd, the sour taste is due to:
(a) Lactic acid (b) Tartaric acid (c) Citric acid (d) Acetic acid
5. Who had discovered the Heavy Hydrogen?
(a) John Napier (b) Frank Whitt (c) Lister (d) H.C. Urey
6. Sugar can be tested in a Diabetes patient by:
(a) Benedict's test (b) Barford's test (c) Denige test (d) None of these
7. Humming bird belongs to a category called:
(a) Ectotherm (b) Endotherm (c) Exotherm (d) Heterotherm.
8. Which form of drug abuse involves most risk of infection with the HIV (AIDS) virus:
(a) Cigarette smoking (b) Using alcohol (c) Injection of heroine (d) Taking too much aspirin
9. "Black holes" refer to:
(a) Hole occurring in heavenly bodies (b) Bright spots on the sun
(c) Collapsing objects of high density (d) Collapsing of low density
10. Pepsin is an example of
(a) Hormone (b) Vitamin (c) Enzyme (d) Nutrient

GENERAL STUDIES

11. Which king introduced "Chain of Justice" in the field of justice
a) Jahangir b) Akbar c) Asokar d) Shahjahan
12. Cheque is an example of _____
a) Paper money b) credit money c) near money d) actual money
13. According to Quran "Mamalik" means
a) the poor b) the slave c) the rich d) the king
14. Raising or lowering of the central bank discount rate is known as
a) Bank rate policy b) Open market operation c) CRR d) b & c
15. Among the following one is not an insecticide?
a) DDT b) BHC c) Zinc phosphide d) Zinc sulphide
16. RBI follows the minimum reserve system in issuing currency since
a) 1950 b) 1952 c) 1954 d) 1956
17. Language is the means of a) transport b) irrigation c) communication d) spirituality
18. Which authority conducts the Local Bodies Election?
a) State election commission b) Central election commission c) District Election Board d) Observers
19. The last king of the Mauryan Dynasty was
a) Pushyamitra b) Brihadratha c) Ajathashtru d) Bimbisara
20. Per capita Income is National income divided by
a) Price b) Consumption c) Investment d) Population

CURRENT AFFAIRS

21. The National Green Tribunal (NGT) on Wednesday declared the _____ shrine a "silent zone", and barred the chiming of bells or chanting of mantras in the areas surrounding the famed cave shrine to preserve its eco-sensitivity. Later, the National Green Tribunal (NGT) on Thursday issued a clarification on the matter saying it's not declared a 'silence zone', and that silence restriction will not apply on Aarti and other rituals. The green tribunal headed by chairperson Justice Swatanter Kumar said the only restriction is that devotees will maintain silence in front of Shivlinga, and the restriction is not applicable to any other part.
a. Ramakrishna b. Amarnath c. Jain d. Buddha e. Christ
22. Foreign workers in the U.S. on _____ work visa may work for more than one company, the country's immigration agency has said.
a. H-1B b. H-1C c. E-1B d. H-2B e. H-1C
23. Microsoft on Wednesday rolled out new features on its _____ search engine powered by artificial intelligence, including one that summarizes the two opposing sides of contentious questions, and another that measures how many reputable sources are behind a given answer.
a. Bing b. Yahoo c. Google d. Wing e. Xerox
24. Pollution level in _____'s three metropolitan areas dropped nearly 40%.
a. India b. America c. China d. Japan
25. Prime Minister commissioned India's first modern conventional submarine, INS Kalvari, into Navy's fleet in _____ on Thursday, a first in almost two decades.
a. Chennai b. Hyderabad c. Mumbai d. Kochi
26. Deadline for linking Aadhaar with bank accounts, PAN extended to _____ 31, 2018.
a. January b. March c. April d. December e. September
27. _____ became the first batsman to score three double centuries in ODIs when he scored 208* against Sri Lanka in the second ODI in Mohali.
a. Virat Kohli b. Rohit Sharma c. Murali Vijay d. M.S.Dhoni e. Sachin Tendulkar
28. Bitcoin trading expanded faster this year in emerging markets than developed ones — and quickest of all in places where authorities tried to crack down. Somewhere, Satoshi Nakamoto is smiling. After all, avoiding bank and government oversight, and sidestepping the eroding effects of inflation, was what Nakamoto had in mind when he (or she, or they) created bitcoin in _____.
a. 2009 b. 2008 c. 2007 d. 2006 e. 2005

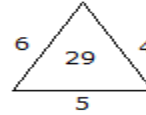
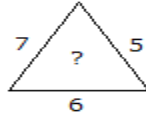
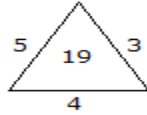
29. Only one-way traffic is being allowed to ply on the nearly _____ km Srinagar-Jammu National Highway, which is the only all-weather road-link connecting the Valley with the rest of the country.
a. 100 b. 200 c. 300 d. 400 e. 500
30. Apple has rolled out iOS 11.2.1 update for its iPhone and iPad users. The bug in iOS ____ was giving unauthorised access to the Home app, and according to Apple's Security update page, it could allow a "remote attacker" to unexpectedly alter the application state.
a. 9 b. 10 c. 11 d.12 e.13

QUANTITATIVE APTITUDE

31. What is the probability of getting a sum 9 from two throws of a dice?
a) 1/6 b)1/8 c) 1/9 d) 1/12
32. The ratio of the circumference of two circles is 2:3 what is the ratio of their areas?
a) 4:9 b) 5:6 c) 8:7 d) 25:36
33. The cost price of an article is 64% of the marked price. Calculate the gain percent after following a discount of 12%.
a) 37.5% b) 48% c) 50.5% d) 52%
34. The body weight of seven students of a class is recorded as 54kg, 78kg, 43kg, 82kg, 67kg, 42kg and 75kg. What is the average body weight of all the seven students?
a) 63 kg b) 69 kg c) 71 kg d) 73 kg
35. Find the odd man out: 3, 5, 7, 12, 17, 19
a)19 b) 17 c) 13 d) 12

TEST OF REASONING

36. One morning after sunrise, Vimal started to walk. During this walking he met Stephen who was coming from opposite direction. Vimal watch that the shadow of Stephen to the right of him (Vimal). To Which direction Vimal was facing?
(a) South (b) West (c) East (d) Data inadequate
37. After walking 6 km, I turned to the right and then walked 2 km. After then I turned to the left and walked 10 km. In the end, I was moving towards the North. From which direction did I start my journey?
(a) North (b) South (c) East (d) West
38. Which one will replace the question mark?



- (a) 25 (b) 37 (c) 47 (d) 41
39. Stove : Kitchen
(a) Window : Bedroom (b) Sink : Bathroom (c) Pot : Pan (d) Television : Living room
40. CEDH : HDEC :: ? : PNRV
(a) VRNP (b) RNPV (c) NRVP (d) VNRP

தமிழ்

41. பிறமொழிச் சொல்லற்றதொடர் எது?
அ. அவர்களிருவருக்கும் இடையேகான்வர்கேசன் நடந்தது.
ஆ. அவர்களிருவருக்கும் இடையேவிவாதம் நடந்தது.
இ. அவர்களிருவருக்கும் இடையேஉரையாடல் நடந்தது.
ஈ. அவர்களிருவருக்கும் இடையே ஸ்பீச் நடந்தது.
42. பொருத்திப்பார்த்துசரியானவிடையைத் தெரிவுசெய்க.
அ. சரதம் - 1. நிலாமுற்றம்
ஆ. சூளிகை - 2. நாடு
இ. மகோததி - 3. வாய்மை
ஈ. அவனி - 4. கடல்
- | | | | |
|------|---|---|---|
| அ | ஆ | இ | ஈ |
| அ. 3 | 1 | 4 | 2 |
| ஆ. 2 | 1 | 3 | 4 |
| இ. 3 | 2 | 1 | 4 |
| ஈ. 1 | 4 | 3 | 2 |
43. 'ஊ'என்றசொல்லின் பொருளைத் தேர்ந்தெடு. அ. இறைச்சி ஆ. உலகம் இ .உயிர் ஈ .உயர்வு
44. 'நல்லதுசெய்தல் ஆற்றிராயினும் அல்லதுசெய்தல் ஒம்புமின்' இவ்வடிகள் இடம்பெற்றுள்ள நூல் ஊஊஊஊ
அ. பதிற்றுப்பத்து ஆ. பரிபாடல் இ.புறநானூறு ஈ. குறுந்தொகை
45. நாடக இயல் என்னும் நூலை இயற்றியவர் யார்?
அ. பரிமாற் கலைஞர் ஆ. பம்பல் சம்மந்தமுதலியார் இ. கிருணசாமிபாவலர் ஈ. விபுலானந்தஅடிகள்
46. 'புனையாஓவியம்'என்பதன் பொருள்
அ. வண்ணம் தீட்டப்பட்டஓவியம் ஆ. பூக்களால்வரைவது
இ. மூலிகைகளால் தீட்டப்பட்டஓவியம் ஈ. கரித்துண்டுக்களால் வடிவம் மட்டும் வரைவது.
47. கிருணகிரி,கோத்தகிரி - இதில் காணப்படும் 'கிரி' எனும் சொல் கீழ்க்கண்டவற்றுள் எதைக் குறிக்கிறது?
அ. கல்லிடைக்குறிச்சி ஆ. பாறை இ. மலை ஈ. கோட்டை
48. மாணிக்கவாசகர் கட்டியகோயில் எங்குள்ளது?
அ. புதுக்கோட்டை ஆ. திருப்பெருந்துறை இ. திருவெண்ணையநல்லூர் ஈ. பெரியகுளம்
49. பொருந்தாச் சொல்லைக் கண்டறி. (தத்தை,சுகம்,வெற்பு,கிள்ளை)
அ. சுகம் ஆ. கிள்ளை இ. வெற்பு ஈ. தத்தை
50. 'தொண்டர்சீர் பரவுவார்'என்றுபோற்றப்படுபவர் யார்?
அ. சுந்தரர் ஆ. கம்பர் இ. சேக்கிழார் ஈ. மாணிக்கவாசகர்.

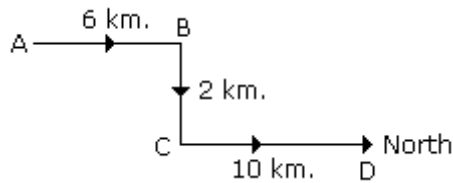
ANSWERS (GK 2)

<u>EVERYDAY SCIENCE:</u>	1.A	2.B	3.C	4.D	5.D	6.D	7.B	8.C	9.C	10.C
<u>GENERAL STUDIES:</u>	11.A	12.B	13.B	14.A	15.D	16.D	17.C	18.A	19.B	20.D
<u>CURRENT AFFAIRS:</u>	21.B	22.A	23.A	24.C	25.C	26.B	27.B	28.B	29.C	30.C
<u>QUANTITATIVE APTITUDE:</u>	31.D	32.A	33.A	34.A	35.D					

31. In two throws of a die, $n(S) = (6 \times 6) = 36$. Let E = event of getting a double = $\{(3,6), (4,5), (5,4), (6, 3)\}$
Hence $P(E) = \frac{n(E)}{n(S)} = \frac{4}{36} = \frac{1}{9}$.
Therefore d) is the correct answer.
32. Let the radius of the circles be r and R respectively
Then, $2\pi r/2\pi R = 2/3$ $\Rightarrow R = 3r$
 $R^2 = (3r)^2 = 9r^2$
Hence ratio of areas = $4:9$
Therefore a) is the correct answer.
33. Let the marked price = Rs 100.
The cost price = Rs 64
The selling price = Rs 88
Gain = SP-CP
 $= 88 - 64 = 24$
The required gain percentage = $\left(\frac{\text{Gain} \times 100}{\text{C.P.}}\right)\%$
 $= \left(\frac{24 \times 100}{64}\right)\% = 37.5\%$
Therefore a) 37.5 is the correct answer.
34. The average of n number is $(\text{sum of } n \text{ numbers})/n$.
Therefore the average of body weights of seven boys
 $= (54 + 78 + 43 + 82 + 67 + 42 + 75)/7$
 $= 441/7 = 63 \text{ kg}$.
Therefore a) 63 kgs is the right answer.
35. Each of the numbers except 12, is a prime number.
Therefore d) is the correct answer.

TEST OF REASONING: 36.A 37.B 38.D 39.D 40.A

36. (a) South
Sun rises in the east. So the shadow of a man will always fall towards the west. Since the shadow of Stephen is to the right of Vimal. Hence Vimal is facing towards South
37. (b) South



- The journey was started from the South.
38. (d) 41
 $(5 \times 3) + 4 = 19$
and $(6 \times 4) + 5 = 29$
Therefore, $(7 \times 5) + 6 = 41$
39. (d) Television : Living
As Stove is an important item of kitchen similarly Television is an important item of living room
40. (a) VRNP
CEDH -- Reverse it ---> HDEC.
VRNP -- Reverse it ---> PNRV.
Therefore VRNP is the answer.

தமிழ் விடைகள் 41.இ 42. ஆ 43.அ 44.இ 45.அ 46.ஈ 47.இ 48.ஆ 49.இ 50. இ



EVERYDAY SCIENCE

1. Which of the following is in liquid form at room temperature?
(a) Cerium (b) Francium (c) Sodium (d) Lithium
2. Insulin controls the metabolism of (a) Fats (b) Hormones (c) Carbohydrates (d) Proteins
3. Which of the following allow the electric current to pass through it
(a) Glasses (b) Graphite (c) Rubber (d) PVC
4. Pneumonia is an infection of the (a) Nervous (b) Blood (c) Skin (d) Lungs
5. Battery was invented by (a) Volta (b) Hero (c) Fermi (d) Maiman
6. The Earth's atmosphere is divided into ____ main layers (a) 4 (b) 6 (c) 5 (d) 7
7. Who is considered the founder of meteorology
(a) Aristotle (b) Plato (c) Einstein (d) Newton
8. Carrot is good source of Vitamin? (a) B complex (b) C (c) A (d) D
9. Which structure prevent water loss in plants (a) Leaf (b) Mesophyll (c) Bark (d) Cuticle
10. Who coined the word 'nanotechnology'?
(a) Eric Drexler (b) Richard Feynmann (c) Sumio Tijima (d) Richard Smalley

GENERAL STUDIES

11. An increase in the Bank Rate generally indicates that the:
(a) Market rate of interest is likely to fall (b) Central bank is no longer making loans to commercial banks
(c) Central bank is following an easy money policy (d) Central bank is following a tight money policy
12. Which one of the following sets of states touch the boundary of Bangladesh?
(a) Sikkim, West Bengal, Meghalaya, Manipur (b) Sikkim, Tripura, Assam, Nagaland
(c) West Bengal, Manipur, Mizoram, Assam (d) West Bengal, Assam, Tripura, Mizoram
13. Consider the following statements regarding the Indus Valley Civilization:
(1) The people of this civilization worshipped trees
(2) Animals were also worshiped and many of them are represented on seals. The most important of them is the one-horned animal unicorn. (3) There was no social differentiation in this civilization.
Which of the statements given above is/are correct?
(a) Only 1 (b) Only 2 (c) 1 and 3 (d) 1 and 2
14. "The Indian Constitution: Cornerstone of a Nation" is written by
(a) D.D.Basu (b) V.P.Shukla (c) Granville Austin (d) Arne Naess
15. In the context of Indian economy, the 'Open Market Operations' refers to:
(a) borrowings by scheduled banks from the RBI (b) lending by commercial banks to industry and trade
(c) purchase and sale of government securities by the RBI (d) maintain Statutory Liquidity Ratio
16. Floating exchange rates are determined:
(a) completely by the market forces (b) completely by the central bank
(c) partially by the central bank (d) by the government
17. Consider the following statements:
(1) The National Stock Exchange of India Limited (NSE) is the leading stock exchange of India, located in Mumbai.
(2) NSE was established in 1992 as the first demutualized electronic exchange country.
Which of the statements given above is/are correct?
(a) Only 1 (b) Only 2 (c) Both 1 and 2 (d) Neither 1 nor 2
18. The Constitution of India lays down which of the following qualification(s) for the appointment of a person as a Governor?
(1) He should be a citizen of India.
(2) He should make and subscribe before the person authorized by the Election Commission, an oath or affirmation according to the form prescribed in the Third Schedule.
(3) He should have completed the age of 30 years.
(4) He should possess other qualification prescribed by the parliament.
Which of the statements given above is/ are correct?
(a) 1 Only (b) 1 and 3 Only (c) 1,2 and 4 Only (d) 1,2,3 and 4
19. What are the effects of "drought" ?
(1) Decline in the cultivate area (2) Fall in agricultural employment (3) Fall in purchasing power
(4) Rise in inflation rate (5) Distress sale of cattle and loss cattle life.
Select the correct answer using the code given below:
(a) 4 and 5 only (b) 1,3 and 5 only (c) 2,4 and 5 only (d) 1,2,3,4 and 5
20. With reference to the University Grants Commission (UGC), consider the following statements:
(1) In pursuance of the recommendation of the Kothari commission the university grants commission was constituted in 1953. (2) The commission was given an autonomous statutory status by an Act of the parliament in 1956. (3) Most of the matters connected with the university education, including the determination and co-ordination of standards and facilities for study and research have been committed to the care of this body. (4) The central government annually places at the disposal of the university grants commission adequate funds from which grants are made to different universities and development schemes are implemented.
Which of the statements given above are correct?
(a) 1 and 2 only (b) 2 and 4 only (c) 2, 3 and 4 only (d) 1,2,3 and 4
21. The traditional festival of _____ was celebrated in Ladakh (Ladakhi Buddhists) region of Jammu and Kashmir to mark the beginning of New Year.
(a) Losar (b) Holi (c) Ramadan (d) Vaisakhi

CURRENT AFFAIRS

22. India is planning to host meeting of World Trade Organisation in the moth of _____ 2018.
 (a) April (b) February (c) June (d) December
23. _____ Virus is a vector borne disease spread by Aedes aegypti mosquito.
 (a) Rabies (b) Ebola (c) Dengue (d) Zika
24. The Union Ministry of Skill Development and Entrepreneurship signed Memorandum of Understanding (MoU) with _____
 (a) Microsoft (b) TATA (c) Maruti-Suzuki (d) Nissan
25. Zoological Survey of India (ZSI) for the first time compiled a list of alien invasive animal species, totalling _____.
 (a) 157 (b) 600 (c) 10 (d) 88
26. According to UN World Migration Report (2018) _____ diaspora is world's largest population in world.
 (a) Mexico (b) Russia (c) China (d) India
27. NASA has discovered the eighth planet called _____
 (a) Kepler-90 (b) Trappist-1 (c) TrES-2b (d) 2M1207
28. PM inaugurated 60 Tuirial Hydro Power Project in _____
 (a) Tamil Nadu (b) Gujarat (c) Mizoram (d) Uttar Pradesh
29. The Union Cabinet has given its approval for continuation of the scheme of National AYUSH Mission from April 2017 to _____.
 (a) March 2018 (b) March 2020 (c) March 2025 (d) March 2022
30. _____ has formally handed over its southern strategic port of Hambantota to China on 99-year lease.
 (a) Maldives (b) India (c) Pakistan (d) Sri Lanka

TEST OF REASONING

31. Out of the five figures marked (1), (2), (3), (4) and (5), four are similar in a certain manner. However, one figure is not like the other four. Choose the figure which is different from the rest.
 (1) (2) (3) (4) (5)
- A. 1 B. 2 C. 3 D. 4 E. 5

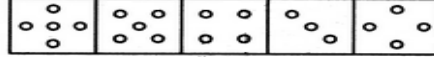


32. Select a suitable figure from the Answer Figures that would replace the question mark (?)

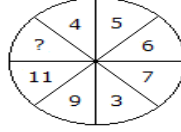
Problem Figures:



Answer Figures:



- A. 1 B. 2 C. 3 D. 4 E. 5
33. Window is to Pane as Book is to _____ A. novel B. glass C. cover D. page
34. B₂CD, _____, BCD₄, B₅CD, BC₆D A. C₂D B. BC₃D C. B₂C₃D D. BCD₇
35. Which one will replace the question mark?



- A. 13 B. 14 C. 12 D. 15

தமிழ்

36. சிவபெருமானின் திருவிளையாடலைக் கூறும் முதல் தமிழ் நூல்
 அ.அற்புததிருவந்தாதி ஆ.திருவாசகம் இ.கல்லாடம் ஈ.திருவிளையாடல்புராணம்
37. 'பசித்திரு தனித்திரு விழத்திரு' என்று கூறியவர் யார்?
 அ. கம்பர் ஆ.வள்ளுவர் இ.இராமலிங்கஅடிகளார் ஈ.ஒட்டக்கூத்தர்
38. தமிழின் மிகப்பழமையான தாலாட்டுப் பாடலைப் பாடிய ஆழ்வார் யார்?
 அ.ஆண்டாள் ஆ.பெரியாழ்வார் இ. நம்மாழ்வார் ஈ.மதுரகவியாழ்வார்
39. பக்திசாரன் என்று அழைக்கப்பட்டவர் யார்?
 அ.மதுரகவியாழ்வார் ஆ.திருமங்கையாழ்வார் இ.திருமழிசையாழ்வார் ஈ.திருப்பாணாழ்வார்
40. தொம்பர் நிகழ்த்தும் கூத்து
 அ. பாவைக்கூத்து ஆ. கணியான்கூத்து இ.தெருக்கூத்து ஈ. கழைக்கூத்து
41. திருவாதிரை நிகழும் திங்கள்
 அ.மார்கழி ஆ.புரட்டாசி இ.கார்த்திகை ஈ.ஐப்பசி
42. வில்லுப்பாட்டு பற்றிய குறிப்பு இடம் பெற்றுள்ள இலக்கியம்
 அ.இராமாயணக்கும்மி ஆ.குற்றாலக்குறவஞ்சி இ.முக்கூடற்பள்ளு ஈ.இராசராசசோழனுலா
43. நான் நிரந்தரமானவன் அழிவதில்லை எந்த நிலையிலும் எனக்கு மரணமில்லை எனக் கவிதை பாடியவர்?
 அ.சுரதா ஆ.கண்ணதாசன் இ.மு.மேத்தா ஈ.பாரதிதாசன்
44. பொருளறிந்து பொருத்துக
 அ.நயனம் - 1. இருள்
 ஆ.இந்து - 2. புன்னகை
 இ.முறுவல் - 3. கண்கள்
 ஈ.அல் - 4. நிலவு
 அ. 3,4,2,1 ஆ. 3,4,1,2 இ.4,3,2,1 ஈ. 3,2,1,4
45. தமிழ் நாட்டில் நடத்தப்பெற்ற முதல் தேசிய சமுதாய நாடகம் எது?
 அ.கதரின்வெற்றி ஆ.தேசியக்கொடி இ. தேசப்பக்தி ஈ.தமிழ்தேசியம்

ANSWERS (GK 3)

<u>EVERYDAY SCIENCE:</u>	1.B	2.C	3.B	4.D	5.A	6.C	7.A	8.C	9.D	10.A
<u>GENERAL STUDIES:</u>	11.D	12.D	13.D	14.C	15.C	16.A	17.C	18.A	19.D	20.C
<u>CURRENT AFFAIRS:</u>	21.A	22.B	23.D	24.C	25.A	26.D	27.A	28.C	29.B	30.D
<u>TEST OF REASONING:</u>	31.A	32.B	33.D	34.B	35.D					

31. Answer: Option **A** (The pins, equal in number to the number of sides in the main figure are attached to the midpoint of a side of the main figure in case of figures (2), (3), (4) and (5). In Fig. (1), these pins are attached to a vertex of the main figure.)

32. Answer: Option **B** (The four parts at the outer ends of the figure are lost.)

33. Answer: Option **D** (A window is made up of panes, and a book is made up of pages. The answer is not (choice a) because a novel is a type of book. The answer is not (choice b) because glass has no relationship to a book. (Choice c) is incorrect because a cover is only one part of a book; a book is not made up of covers.)

34. Answer: Option **B** (Because the letters are the same, concentrate on the number series, which is a simple 2, 3, 4, 5, 6 series, and follows each letter in order.)

35. Answer: Option **D** (Sum of numbers in lower half of the circle = $11 + 9 + 3 + 7 = 30$
Sum of numbers in upper half of the circle = $? + 4 + 5 + 6 = ? + 15$; Upper half = Lower half
 $30 = ? + 15 \rightarrow ? = 30 - 15 \rightarrow ? = 15$. Therefore, 15 is the answer.)

தமிழ் விடைகள் 36.அ 37.இ 38.ஆ 39.இ 40.ஈ 41.ஆ 42.இ 43.ஆ 44.அ 45.அ



EVERYDAY SCIENCE

1. Which of the following is a parasitic plant?
a) Sandalum b) *Cuscutta* c) *Vanda* d) *Clostridium*
2. Which of these is not found in Chromosome?
a) Protein b) RNA c) DNA d) Sugar
3. Cooking oil can be converted into ghee by
a) Oxidation b) Crystallization c) Distillation d) Hydrogenation
4. Which of the following chemical was released in the Bhopal gas Tragedy of 1984?
a) Methyl Cyanate b) Serin gas c) Methyl Isocyanate d) Methyl Carbide
5. Who discovered cement?
a) Joseph Aspdin b) Marie Curie c) Franklin d) None
6. One nautical mile is
a) 1.852 km b) 1.511 km c) 1.6 km d) 1.852 m
7. Human body contains the maximum amount of
a) Protein b) Water c) Fats d) Plasma
8. Black lung disease found in the workers of
a) Coal mines b) Textile workers c) Cotton dust d) None
9. Who was awarded noble prize for Physics in 2017
a) Rainer Weiss, Barry C. Barish & Kip S. Thorne b) Jacques Dubochet, Joachim Frank & Richard Henderson
c) Jeffrey C. Hall, Michael Rosbash & Michael W. Young d) ican
10. Which of the following is termed as "Yellow Cake" an item of smuggling across border?
a) Heroin b) Cocaine c) Uranium oxide d) Unrefined gold

GENERAL STUDIES

11. Usually the population of a Corporation is
(a) 5 lakhs (b) 10 lakhs (c) 8 lakhs (d) 7 lakhs
12. The Direct exchange of goods for goods is called_____
(a) Free Market Economy (b) Monetized Economy (c) Barter Economy (d) Closed Economy
13. E-Commerce infrastructure involves
(a) Web servers b) E-Catalogues (c) Networks d) All the above
14. Which of the following factors will not contribute India's economic growth
(a) ISRO Research (b) Increasing Savings (c) Population Growth (d) Industrial Growth
15. National Sports for Indonesia is
(a) Chess (b) Hockey (c) Volley Ball (d) Badminton
16. The Exchange of goods and services within geographical boundaries of nations is referred to as
(a) Foreign Trade (b) Bilateral Trade (c) Multilateral Trade (d) Internal Trade
17. Which of the following is a Private Life Insurance company in India?
a) Birla Sun Life b) LIC c) GIC d) All the above
18. Match the international organization and year of foundation and choose the correct answer from the codes given below
(a) UNO 1.1948
(b) UNESCO 2.1995
(c) WHO 3.1945
(d) WTO 4.1946

	(a)	(b)	(c)	(d)
(A)	4	1	3	2
(B)	3	4	1	2
(C)	2	1	3	4
(D)	4	1	2	3
19. The Multi-Functionary at the district level is
(a) District Health Officer (b) District Labour Officer (c) Tahsildar (d) District Collector
20. Who is chosen for Avvaiyar award of Tamil Nadu Government for the year 2014?
(a) Dr.K.Mathangi Rama Krishnan (b) Kiran Bedi (c) Arunthathi (d) Dr.Daisy Christina

CURRENT AFFAIRS

21. _____ receiving her degree certificate at the convocation ...chancellor of Tamil nadu open University at 67 year- old women MA degree
a) Chinnan b) M.Chellathai c) Queen d) Marys
22. _____ is planned to launch in March 2018 from ISRO's Sriharikota centre
a) Ariane b) Carto sat -2 c) Chandrayaan-II d) kalpana-1
23. _____ is an Indian billionaire entrepreneur, she is the chairman and managing director of Biocon limited a Biotechnology company based in Bangalore
a) Indu Jain b) Kiran mazumdar-Shaw c) Indra Nooyi d) vandana Luthra
24. Who is the World's oldest person dies at age 117 at present _____ dies aged 117
a) Jeanne Calment b) Violet Mosse - Brown c) Sarak Knauss d) Lucy Khannah
25. At present _____ is a chief minister of Uttra Pradesh as Indian monk
a) Dayananda Saraswati b) Satyananda Giri c) Yadhav d) Yogi Adityanath
26. Who _____ was sworn for a second time as chief minister of Gujarat in the presence of Prime Minister Narendra Modi and Bharatiya Janata Party (BJP) president on 2017 MLA election.
a) Nitin Patel b) O.P.Kohli c) Kaushik Patel d) Vijay Rupani
27. Which one is largest desalination plant present in Tami Nadu
a) Jamnagar b) Chennai c) Manjur d) Nemmeli

28. Who is the India's _____ won the coveted Miss World 2017
 a) Yukta Mookhey b) Priyanka Chopra c) Manushi Chhillar d) Aishwarya Rai
29. In Nov 19, 2017 – that day is the 100th birth anniversary of _____, as a India's first woman Prime Minister.
 a) Sonia Gandhi b) Sushma Swaraj c) Indira Gandhi d) Sheila Dikshit
30. How much percentage India's forest cover at present
 a) 36.2% b) 24.16% c) 21.5% d) 20.21%

QUANTITATIVE APTITUDE

31. X and Y invest Rs.21000 and Rs.17500 respectively in a business. At the end of the year, they make a profit of Rs.26400. What is the share of X in the profit?
 a) Rs.14400 b) Rs.26400 c) Rs.12000 d) Rs.12500
32. X starts a business with Rs.45000. Y joins in the business after 3 months with Rs.30000. What will be The ratio in which they should share the profit at the end of the year?
 a) 1:2 b) 2:1 c) 1:3 d) 3:1
33. Suresh started a business with Rs.20,000. Kiran joined him after 4 months with Rs.30,000. After 2 more months, Suresh withdrew Rs.5,000 of his capital and 2 more months later, Kiran brought in Rs.20,000 more. What should be the ratio in which they should share their profits at the end of the year?
 a) 21:32 b) 32:21 c) 12:17 d) 17:12
34. How much time will it take for an amount of Rs. 900 to yield Rs. 81 as interest at 4.5% per annum of simple interest?
 a) 1 years b) 3 years c) 2 years d) 4 years
35. Arun took a loan of Rs. 1400 with simple interest for as many years as the rate of interest. If he paid Rs.686 as interest at the end of the loan period, what was the rate of interest?
 a) 8% b) 6% c) 4% d) 7%

TEST OF REASONING

36. In a code language '64391' is written as '73482'. Then how would '218759' be coded in the same language ?
 a) 329860 b) 309668 c) 127840 d) 309768
37. How many even numbers are there in the following series of numbers, each of which is immediately preceded by an odd number, but not immediately followed by an even number?
 5 3 4 9 8 7 1 6 5 3 2 9 8 7 3 5
 a) 0 b) 1 c) 4 d) 5
38. Find the missing letters of the series ba-b-aabb-a- - a-bb.
 a) bbaabb b) ababba c) ababab d) bababa.
39. Arrange the following words in logical and meaningful order
 1 college 2 child 3 salary 4 school 5 employment.
 a) 1,2,4,3,5 b) 2,4,1,5,3 c) 4,1,3,5,2 d) 5,3,2,1,4
40. I have a few sweets to be distributed. If I keep 2,3 or 4 in a pack, I am left with one sweet. If I keep 5 in a pack, I am left with none. What is the minimum number of sweets I can have to pack and distribute ?
 a) 25 b) 37 c) 54 d) 65

தமிழ்

41. 'மா' என்ற ஒரெழுத்து ஒரு மொழியின் பொருள் தருக.
 அ. விலங்கு, பெரிய ஆ. உயர்ச்சி இ. மூப்பு, மூன்று ஈ. அன்பு, மேம்பாடு
42. மருக்கொழுந்து நட்தான் - இலக்கணக் குறிப்புத் தருக.
 அ. பொருளாகுபெயர் ஆ. சினையாகுபெயர் இ. பண்பாகுபெயர் ஈ. காலவாகுபெயர்
43. தமிழ்மொழி 'சொற்பெருக்கும், கலைநுட்ப அழகும், பண்பட்ட தூய்மையும் உடையதாகமனிதர் பேசும் மொழிகளில் ஒன்று' - யார் கூற்று?
 அ. கால்டுவெல் ஆ. மாக்ஸ்மூல்லர் இ. டெய்லர் ஈ. பெர்சிவல்
44. 782 அடிகளில் விரித்துரைக்கப்பட்ட சங்க பாடல் எது?
 அ. குறிஞ்சிப்பாட்டு ஆ. முல்லைப்பாட்டு இ. நெடுநல்வாடை ஈ. மதுரைக்காஞ்சி
45. கோளறு பதிகம் பாடிய சைவநாயன்மார் யார்?
 அ. மாணிக்கவாசகர் ஆ. சுந்தரர் இ. திருநாவுக்கரசர் ஈ. திருஞானசம்பந்தர்
46. சைவசித்தாந்த சாத்திரங்கள் எத்தனை?
 அ. 10 ஆ. 12 இ. 14 ஈ. 16
47. 'ஒரு கதவும் கொஞ்சம் கள்ளிப்பாலும்' என்ற கவிதைத் தொகுப்பால் அனைவரின் கவனத்தை ஈர்த்த கவிஞர்
 அ. பிருந்தா ஆ. தாமரை இ. இளம்பிறை ஈ. குட்டிரேவதி
48. 2017-ஆம் ஆண்டின் இலக்கியத்திற்கான சாகித்ய அகாடமி விருது வாங்கிய எழுத்தாளர்
 அ. இன்குலாப் ஆ. வைரமுத்து இ. சல்மா ஈ. கனிமொழி
49. 'வந்தேறிகள்' என்னும் நாவலின் ஆசிரியர்
 அ. இரா.பாரதிநாதன் ஆ. சின்னப்பபாரதி இ. ஆர்.சுமதி ஈ. சூடாமணி
50. தமிழுக்குத் தனிப்பெயர் தரும் வண்ணம் நடத்தப்பெற்ற இதழின் பெயர்?
 அ. குடியரசு ஆ. செங்கோல் இ. திராவிடநாடு ஈ. முரசொலி

ANSWERS (GK 4)

<u>EVERYDAY SCIENCE:</u>	1.B	2.B	3.D	4.C	5.A	6.A	7.B	8.A	9.A	10.C
<u>GENERAL STUDIES:</u>	11.B	12.C	13.D	14.C	15.D	16.D	17.A	18.B	19.D	20.A
<u>CURRENT AFFAIRS:</u>	21.B	22.C	23.B	24.B	25.D	26.D	27.C	28.C	29.C	30.B

21. Nov 30, 2017 - For M. Chellathai, 67, it was a five-decade-old dream that came true when Governor Banwarilal Purohit, Chancellor of Tamil Nadu Open University, admitted her to the postgraduate degree programme in History. M. Chellathai has a special story. She faced many hurdles in her pursuit of education due to ...
22. Chandrayaan II, India's second mission to the Moon, is likely to take place in the first quarter of 2018, Union Minister of State (Independent Charge) for Atomic Energy and Space Dr. itendra Singh said on Monday. Addressing the annual inaugural session of the five-day Asian Conference on Remote ...
23. Kiran Mazumdar-Shaw is an Indian billionaire entrepreneur. She is the chairman and managing director of Biocon Limited, a biotechnology company based in Bangalore, India and the chairperson of IIM-Bangalore
24. Violet Brown, the world's oldest person and the last living subject of Queen Victoria, has passed away at the age of 117 in Jamaica. ... "It was truly an honour to present Ms Violet Brown with her Guinness World Records certificate for being the oldest person living, as she put it, 'in the entire world'," said ...
25. Yogi Adityanath is an Indian monk and Hindu nationalist politician who is the current Chief Minister of Uttar Pradesh, in office since 19 March 2017. He has an image as a Hindutva firebrand. He was appointed as the Chief Minister on 26 March 2017 after the Bharatiya Janata Party (BJP) won the 2017 State Assembly ...
26. Vijay Rupani. Vijay Ramniklal Rupani (born 2 August 1956) is an Indian politician from the Bharatiya Janata Party. He is the incumbent Chief Minister of Gujarat, a western state in India, since 7 August 2016 and a member of the Gujarat Legislative Assembly representing Rajkot West
27. The second largest plant is in Jamnagar, Gujarat, with a capacity of 96,000m³/day. The INR5.15bn (€91m) Minjur desalination plant has a capacity of 100,000m³/day (100mld). The plant produces potable water using reverse osmosis (RO) technology and serves an estimated population of 500,000 in Chennai.
28. India's Manushi Chhillar today won the coveted Miss World 2017 crown at a grand event in China, bringing to an end the country's dry spell of 17 years at the top pageant contest. The 20-year-old from Haryana, who is a medical student, edged out top five contestants from England, France, Kenya and ...
29. Nov 19, 2017 - Today is the 100th birth anniversary of Indira Gandhi, India's first and only woman Prime Minister. - Indira Gandhi 100th Birth Anniversary: Rahul Gandhi, PM Narendra Modi Tweets Wishes for First and Only Woman Prime Minister of India.
30. While the total forest cover of the country has increased by 3, 775 sq km, the tree cover has gone up by 1, 306 sq km. According to the India State of Forest Report (ISFR) 2015 released here today, the total forest and tree cover is 79.42 million hectare, which is 24.16 percent of the total geographical area.

QUANTITATIVE APTITUDE: 31.A 32.B 33.A 34.C 35.D

31.Ans:

Ratio of the investment

$$=21000:17500=210:175=42:35=6:5$$

Share of X in the profit

$$=26400 \times 6/11=2400 \times 6=14400$$

32. Ans: = Ratio of the investments multiplied by the time period

$$=45000 \times 12:30000 \times 9$$

$$=45 \times 12:30 \times 9$$

$$=3 \times 12:2 \times 9$$

$$=2:1$$

33. Ans: Suresh : Kiran

$$=(20000 \times 6+15000 \times 6):(30000 \times 4+50000 \times 4)$$

$$=(20 \times 6+15 \times 6):(30 \times 4+50 \times 4)$$

$$=(20 \times 3+15 \times 3):(30 \times 2+50 \times 2)$$

$$=105:160=21:32$$

34. Ans: P = Rs.900

$$SI = Rs.81$$

$$T = ?$$

$$R = 4.5\%$$

$$T = \frac{100 \times SI}{PR}$$

$$= \frac{100 \times 81}{900 \times 4.5}$$

$$=2 \text{ years}$$

35. Ans: Let rate = R%

Then, Time, T = R years

$$P = Rs.1400$$

$$SI = Rs.686$$

$$SI = \frac{PRT}{100}$$

$$\Rightarrow 686 = \frac{1400 \times R \times R}{100}$$

$$\Rightarrow 686 = 14 R^2$$

$$\Rightarrow 49 = R^2$$

$$\Rightarrow R = 7$$

TEST OF REASONING:

36.B 37.D 38.B 39.B 40.A

தமிழ் விடைகள்

41. அ 42. ஆ 43. இ 44. ஈ 45. ஈ 46. இ 47. ஆ 48. அ 49. அ 50.ஆ



EVERYDAY SCIENCE

1. If the gravitational force of earth disappears suddenly then what will happen among the following?
a) weight of object becomes zero but mass remain constant
b) mass of object becomes zero but weight remain constant
c) mass of object first decrease then increases
d) none of the above
2. If two soap bubbles of different diameters are connected by tubes then what will happen?
a) both bubbles will explode when connected
b) size of both bubbles remain constant
c) small bubbles become smaller while bigger ones become more bigger
d) none of the above
3. For the manufacture of cement, which of the following is used in the largest quantity?
a) Alumina
b) Calcium oxide
c) Gypsum
d) Silica
4. Which of the following metals has the lowest melting point?
a) Lead
b) Lithium
c) Potassium
d) Sodium
5. Which of the following copper alloys is used for the manufacture of caps of cartridges?
a) Brass
b) Bronze
c) Gun metal
d) German silver
6. All of the following are units of electrical measurements, except
a) Angstrom
b) Coulomb
c) Ohm
d) Siemen
7. River water is harder than rain water because it
a) is always flowing
b) is exposed to the atmosphere
c) contains salts of calcium and magnesium
d) contains sodium chloride
8. Which of the following lights are absorbed in higher amount by plants?
a) blue and red
b) violet and orange
c) green and violet
d) none of the above
9. The theory of "jumping genes" was propounded by
a) Gregor Johan Mental
b) Thomas Hunt Morgan
c) Barbara McClintock
d) Watson and Crick
10. Coal is regarded as the worst environmental pollutant when burnt, because its burning releases larger amounts of
1. carbon dioxide
2. sulphur dioxide
3. nitrogen oxides
4. Methane
Which of the above are correct?
a) 1 and 4
b) 1, 2 and 3
c) 1, 3 and 4
d) 1,2,3 and 4

GENERAL STUDIES

11. Fiscal deficit in the Union Budget means _____
a) The difference between current expenditure and current revenue
b) Net increase in Union Governments borrowings from the Reserve Bank of India
c) The sum of budgetary deficit and net increase in internal and external borrowings
d) The sum of monetized deficit and budgetary deficit
12. What is the rate applicable under CGST to a registered person being a hotelier opting to pay taxes under composition scheme?
A. 2.5%
B. 0.5%
C. 1%
D. None of the above
13. Crypto currency is a _____
A. Plastic Money
B. Digital Medium of Exchange
C. Digital payment
D. Both A & B
14. Which of the following types of accounts are known as "Demat Accounts"?
A. Zero Balance Accounts
B. Accounts which are opened to facilitate repayment of a loan taken from the bank. No other business can be conducted from there
C. Accounts in which shares of various companies are traded in electronic form
D. Accounts which are operated through internet banking facility
15. Who is the author of book 'We Indians'?
A. Khushwant Singh
B. SubramaniyaSwamy
C. Nirad C. Choudry
D. Muluk Raj Anand
16. Who has won the 2016 Laureus World Sportsman of the Year Award?
A. Lewis Hamilton
B. Usain Bolt
C. Novak Djokovic
D. Lionel Messi
17. Which cricket team has won the 2017 Ranji Trophy tournament?
A. Baroda
B. Tamil Nadu
C. Maharashtra
D. Vidarbha
18. In which of the following countries are located in the world's largest helium-rich natural gas fields?
A. Australia
B. China
C. USA
D. Canada
19. Consider the following: 1. KisanVikasPatra 2. Public Provident Fund 3. Post Office Savings
Which among the above are considered being the small savings in India?
A. Only 3
B. 1, 2 & 3
C. 2 & 3
D. 1 & 3
20. Who is the founder of Wikipedia?
A. Peer Schneider
B. Byron Looper
C. Rickard Eriksson
D. Jimmy Wales

CURRENT AFFAIRS

21. Which state publishes first draft of NRC with 1.9 crore names?
A. Punjab
B. Nagaland
C. Assam
D. Gujarat
22. Who is appointed new ISRO Chairman?
A. Dr K. Sivan
B. Dr. K. Menon
C. Rajeev Kumar
D. Dilip Asbe
23. Who became the first Indian to win an international medal in skiing?
A. Deepika Kumari
B. Shagun Choudhary
C. Soumitra Chatopadhyay
D. Anchal Thakur
24. Who inaugurated 4th International Dharma Dhamma conference (IDDC-2018)
A. PM, Narendra Modi
B. President, Ramnath Kovind
C. Rajnath Singh
D. Mayawati
25. Railways has recently launched which app for freight managers?
A. FASTAG
B. SFOORTI
C. SMART
D. SMOORTI
26. Which court rules National Anthem Not Mandatory In Cinema Halls ?
A. Delhi Highcourt
B. Supreme Court
C. Jaipur Highcourt
D. Allahabad Highcourt

27. Har Gobind Khorana was associated with which field?
 A. Sports B. Science C. Music D. Politics
28. Who is appointed Chef de Mission for Winter Olympics 2018 by IOA?
 A. Anil Vij B. Narendra Batra C. Harjinder Singh D. Mahendra Singh
29. Which becomes first state to launch High Risk Pregnancy portal?
 A. Rajasthan B. Kerala C. Haryana D. Punjab
30. Who is the author of the book :Gulliver’s Travels
 A. Arthur Conan Doyle B. Charles Dickens C. H.G. Wells D. Jonathan Swift

QUANTITATIVE APTITUDE

31. Find the least value of * for which 5967*13 is divisible by 3
 a) 1 b) 2 c) 3 d) 4
32. Two numbers are in the ratio of 15:11. If their H.C.F is 13 ,find the numbers.
 a)195 and 143 b)190 and 143 c)190 and 143 d)none of these
33. The average weight of A,B,Cis 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, find the weight of B.
 a) 30 b) 21 c) 31 d) 41
34. In an examination, 35% of total students failed in Hindi, 45% failed in English and 20% in both. Find the percentage of these who passed in both the subjects
 a)10% b)20% c)30% d) 40%
35. A man buys an article for 27.50 and sells it for Rs 28.60.find his gain percent
 a) 2% b) 3% c)4% d)5%

TEST OF REASONING

36. What is the next term in the following series? 1, 4, 3, 9, 5, 16, 7, 25, 9, 36, 11, ?
 A. 64 B. 49 C. 48 D. 55
37. Look at this series: 2, 1, (1/2), (1/4), __What number should come next?
 A. (1/3) B. (1/8) C. (2/8) D. (1/16)
38. Look at this series: F2, __, D8, C16, B32, ... What number should fill the blank?
 A. A16 B. G4 C. E4 D. E3
39. Which word does NOT belong with the others?
 A. cornea B. retina C. pupil D. Vision
40. ELFA, GLHA, ILJA, _____, MLNA
 A. OLPA B. KLMA C. LLMA D. KLLA

தமிழ்

41. முத்தமிழ் காவலர் எனஅழைக்கப்பெறும் தமிழறிஞர் யார்?
 அ. கி.ஆ.பெ.விசுவநாதம் ஆ. மு.வ. இ. கி.ரா. ஈ. ஈ.வெ.ரா
42. சிந்துஆற்றங்கரையில் அகழ்வாராய்ச்சிமேற்கொண்டஅறிஞர்-----
 அ. டெய்லர் ஆ. கார்ல்டுவெல் இ. ஹிராகபாதிரியார் ஈ. ஜி.யு.போப்
43. “ஒழுக்கத்தின் ஒல்கா ‘உரவோர்’ இழுக்கத்தின் ஏதம் படுபாக்கறிந்து” - இலக்கணக்குறிப்புதருக.
 அ. பண்புத்தொகை ஆ. வினையெச்சம் இ. வினையாலணையும் பெயர் ஈ. பெயரெச்சம்
44. உயர்தனிச் செம்மொழிஎன்னும் ஆங்கில நூலின் ஆசிரியர்-----
 அ. வேர்ஸ்வொர்த் ஆ. சேக்ஸ்பியர் இ. கீட்ஸ் ஈ.தேவநேயப்பாவாணர்
45. ஓர் எழுவாய் அல்லதுஒன்றிற்குமேற்பட்டஎழுவாய்கள் ஒருபயனிலையைக் கொண்டுமுடிவது ?
 அ. தனிநிலைத்தொடர் ஆ. தொடர்நிலைத் தொடர் இ. கலவைத்தொடர் ஈ. செய்தித்தொடர்
46. புறாவின் துன்பத்தினைபோக்கியமன்னன் -----
 அ. பாண்டியமன்னன் ஆ.மனுநீதிச்சோழன் இ.சிபிமன்னன் ஈ.செங்குட்டுவன்
47. தமிழின் முதல் குழந்தை இலக்கியமாத இதழ் -----
 அ. பாலதீபிகை ஆ. சுட்டிவிகடன் இ. சிறுவர்மணி இதழ் ஈ. பாலவிநோதினி
48. தமிழ் இலக்கியத்தில் முதன்முதலாககிடைக்கும் கடிதங்கள் எதிலுள்ளன?
 அ. திருக்குறள் ஆ. சங்கஇலக்கியம் இ.மணிமேகலை ஈ.சிலப்பதிகாரம்
49. முதலில் வெளிவந்ததமிழ் நாட்டுப்புறப்பாடலின் தொகுப்பு எங்கு வெளியிடப்பட்டது?
 அ. சிங்கப்பூர் ஆ. தமிழ்நாடு இ. இலங்கை ஈ. பர்மா
50. பொதுவுடைமை இயக்கத்தில் தமிழ் இயக்கத்தைக் கலந்த பெருமையாருக்கு உண்டு?
 அ. ப.ஜீவானந்தம் ஆ. தொ.மு.சி.ரகுநாதன் இ. பட்டுக்கோட்டையார் ஈ. கண்ணதாசன்

ANSWERS (GK 5)

<u>EVERYDAY SCIENCE:</u>	1.A	2.C	3.B	4.C	5.A	6.A	7.C	8.A	9.C	10.B
<u>GENERAL STUDIES:</u>	11.C	12.A	13.B	14.C	15.A	16.C	17.D	18.C	19.B	20.D
<u>CURRENT AFFAIRS:</u>	21.C	22.A	23.D	24.B	25.B	26.B	27.B	28.C	29.C	30.D
<u>QUANTITATIVE APTITUDE:</u>	31.B	32.A	33.C	34.D	35.C					

31. Let the required value of x then
 $(5+9+6+7+x+13)=(31+x)$ is divisible by 3
Least value of x is 2
32. Let the required number be $15x$ and $11x$
Then, their h.c.f is x
 $X=13$
The numbers are $(15*13)$ and $(11*13)$
195 and 143
33. Let A, B and C represent their individual weights .then
 $A+b+c/3= 45$ kg
 $A+b+c=45*3=135$ kg
 $A+b/2=40=40*2=80$ kg
 $(a+b)+(b+c)-(A+B+C)=(80+86-135)$
 $B=166-35=31$ kg
34. Let A and B be the set of students who failed in Hindi and English respectively
 $n(a)= 35, n(b) =45, n(a \cap b) = 20$
 $n(a \cup b) = n(a)+n(b)-n(a \cap b)$
 $= 35+45-20= 60$
Failed in hindi or english or both $=60\%$
Percentage passed $= (100-60)= 40\%$
35. Cost price(c.p)=Rs 2750 , selling price = 28.60
Gain $= 28.60-27.50=1.10$
Gain% $=(1.10/27.50*100)\% =110/27.50= 4\%$

<u>TEST OF REASONING:</u>	36.B	37.B	38.C	39.D	40.D
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36. Ans: B
Solution:
There are two series 1, 3, 5, 7, 9, 11
4, 9, 16, 25, 36, 49
37. Ans: B
Solution:
This is a simple division series; each number is one-half of the previous number.
In other terms to say, the number is divided by 2 successively to get the next result.
 $4/2 = 2; 2/2 = 1; 1/2 = \frac{1}{2}; (1/2)/2 = \frac{1}{4}; (1/4)/2 = 1/8$ and so on.
38. Ans: C
Explanation: The letters decrease by 1; the numbers are multiplied by 2.
39. Ans: D
Explanation: The cornea, retina, and pupil are all parts of the eye.
40. Ans: D
Explanation: The second and forth letters in the series, L and A, are static. The first and third letters consist of an alphabetical order beginning with the letter E.

தமிழ்

41.ஆ 42.இ 43.இ 44.ஈ 45.அ 46.இ 47.அ 48.ஈ 49.இ 50.அ

@@@@@@@@



EVERYDAY SCIENCE

1. Insecticides generally attack
a) Respiratory System b) Nervous System c) Muscular System d) Circulatory System
2. IPM stands for
a) Integrated Pest Manufacture b) Integrated Plant Manufacture
c) Integrated Pest Management d) Integrated Plant Management
3. During seed germination, seed coat ruptures due to
a) Differentiation of cotyledons b) Massive glycolysis in endosperm and cotyledons
c) Sudden increase in cell division d) Massive imbibitions of water
4. Seed develops from
a) Ovary b) Embryo c) Ovule d) Embryo sac
5. Seed dormancy allows the plants to
a) Overcome unfavourable climate conditions b) Develop healthy seeds
c) Reduce viability d) Prevent deterioration of seeds
6. Cancer is caused by
a) Uncontrolled Mitosis b) Uncontrolled Meiosis
c) Rupturing of Cells d) Loss of immunity of the cells
7. The resemblance of individuals to their progenitors is called
a) Heredity b) genetics c) evolution d) none of these
8. Biogas is produced by
a) aerobic breakdown of biomass b) anaerobic break down of biomass
c) with the help of methanogenic bacteria d) both b and c
9. The blood cancer is known as
a) Haemolysis b) Leukaemia c) Haemophilia d) Thrombosis
10. Which one of the following diseases is due to an allergic reaction?
a) Skin cancer b) Goitre c) Hay fever d) Enteric fever

GENERAL STUDIES

11. Who is the president of India?
(A) Dr.A.P.J.Abdul Kalam (B) Ram Nath Kovind (C) Pranab Mukherjee (D)Pratibha Patil
12. The first development flight of SLV-3 took place on
(A)May 31, 1981 (B)April 17, 1983 (C) December 21, 1999 (D)December 28, 1995
13. The Indian Air Force celebrated its Golden Jubilee in
(A)1962 (B)1972 (C) 1982 (D)1992
14. The industrial organization of Atomic Minerals Division, Heavy Water Board (HWB) is located at
(A)Mumbai (B)Kolkata (C)Hyderabad (D)Bihar
15. The host of first Olympics in 1896 was
(A)Athens, Greece (B)Paris, France (C)London, Great Britain (D)Los Angeles, USA
16. The Indian Ocean Arc is an Imaginary circle in space about ____ over the equator
(A)20,000 km (B)35,000 km (C)36,000 km (D) 30,000 km
17. The main purpose of ASEAN (Association of South-East Asian Nations) is
(A)To accelerate economic progress and maintain economic stability
(B)To maintain higher standards of living among member nations
(C) To provide collective defence and economic cooperation (D)None of the above
18. Which is the second largest beach in the India?
(A)Marina (B)**Ninety Mile Beach** (C)**Virginia Beach** (D)**Stockton Beach**
19. Dr.A.P.J.Abdul Kalam Memorial located in
(A)Chennai (B) Trichy (C) Theni (D) Rameshwaram.
20. Kiran Bedi received Magsaysay Award for government service in
(A) 1992 (B) 1993 (C) 1994 (D) 1995

CURRENT AFFAIRS

21. Who will lead the Indian delegation at the 48th annual meeting of the World Economic Forum (WEF-2018)?
[A] Narendra Modi [B] Suresh Prabhu [C] Arun Jaitley [D] Sushma Swaraj
22. Which country's team has won the 5th edition of Blind Cricket World Cup 2018?
[A]Nepal [B]Bangladesh [C]SriLanka [D] India
23. Which state has recently inaugurated the World War II Memorial Museum?
[A]ArunachalPradesh [B]Karnataka [C]Odisha [D] Uttar Pradesh
24. Who is the author of the book "The Heartfulness Way"?
[A]NandanBanerjee [B]ChetanBhagat [C]SushantGupta [D] Kamlesh Patel
25. Which city to host the 4th edition of India International Science Festival (IISF-2018)?
[A]NewDelhi [B]Chennai [C]Ahmedabad [D] Lucknow
26. What is the India's rank among emerging economies at the WEF's Inclusive Development Index (IDI-2018)?
[A] 47th [B] 26th [C] 71st [D] 62nd
27. Which country was the largest source of Foreign Direct Investment (FDI) in India in FY17, according to recent census by the Reserve Bank of India (RBI)?
[A] Singapore [B] Japan [C] Mauritius [D] Netherlands
28. The All India Institute of Speech and Hearing (AIISH) is located in which city?
[A]Mysore [B]NewDelhi [C]Chennai [D] Kochi

29. India's first garbage fest 'Kachra Mahotsav 2018' has organized by which state?
 [A]MadhyaPradesh [B]Chhattisgarh [C]Assam [D] Punjab
30. Who has been appointed as the new Chief Election Commissioner (CEC)?
 [A] Y S Reddy [B] Om Prakash Rawat [C] Ashok Lavasa [D] Sunil Arora
- QUANTITATIVE APTITUDE**
31. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. Find out the age of the youngest child?
 a) 6 years b) 5 years c) 4 years d) 3 years
32. A man is 24 years older than his son. In two years, his age will be twice the age of his son. What is the present age of his son? a) 23 years b) 22 years c) 21 years d) 20 years
33. An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?
 a) 154° b) 180° c) 170° d) 160°
34. A work can be finished in 16 days by twenty women. The same work can be finished in fifteen days by sixteen men. The ratio between the capacity of a man and a woman is
 a) 1:3 b) 4:3 c) 2:3 d) 2:1
35. The average monthly income of A and B is Rs. 5050. The average monthly income of B and C is Rs. 6250 and the average monthly income of A and C is Rs. 5200. What is the monthly income of A?
 a) 2000 b) 3000 c) 4000 d) 5000

தமிழ்

36. சைவசித்தாந்த முதல்வர் எனப் போற்றப்படுபவர் யார்?
 அ. நந்திசிவாச்சாரியார் ஆ. மெய்கண்டநாயனார் இ. தேவநேயர் ஈ. நக்கீரர்
37. கந்தபுராணத்தில் அடங்கியுள்ள செய்யுட்களின் எண்ணிக்கை யாது?
 அ.10346 ஆ.10347 இ.10348 ஈ.10349
38. எந்த ஆண்டு முதல் தமிழக அரசால் ஆட்சிச்சொல்லகராதி வெளியிடப்பெற்றது?
 அ.1857 ஆ.1757 இ. 1957 ஈ.2017
39. சங்கத்துப் புலவராற்றுப்படைஎன்ற நூலின் ஆசிரியர் யார்?
 அ. குலம்காதிருநாவலர் ஆ. அப்துல்காதிர் இ. செய்குமுஸ்தபா ஈ. முகமதுஉசேன்
40. தமிழ் இசையின் தனித்தன்மைகளைஉலகிற்குஉணர்த்தியவர் ----
 ஆ .ஞானபிரகாசம் ஆ. பவர்ஐயர் இ. தஞ்சைஆபிரகாம்பண்டிதர் ஈ. வேதநாயகசாஸ்திரியார்
41. திருநங்கையர் எழுதிய முதல் நாவல் எது?
 அ. நான்வியா ஆ. மூன்றாம் பாலின் முகம் இ. அவன் - அதுஅவள் ஈ. பதினெட்டாம் போர்
42. தவறாகப் பிரிக்கபெற்றசொல்லைத் தேர்வுசெய்க.
 அ.இலக்கியம் ஸீஇலக்கு இயம்
 ஆ.செம்மொழி ஸீசெம்மைமொழி
 இ.தமிழ்மொழி ஸீதமிழ் மொழி
 ஈ.வேருன்றிய ஸீவேருஊன்றிய
43. 'மஞ்சணத்தி ' என்ற கவிதைத் தொகுப்பின் ஆசிரியர் யார்?
 அ. சல்மா ஆ. வெண்ணிலா இ. கனிமொழி ஈ. தமிழ்ச்சிதங்கப்பாண்டியன்
44. முதுகுடிப் பிறந்த மகளிரும் நிகரற்ற வீரவாழ்க்கையினராவர். இவ்வாக்கியம் எவ்வகைவாக்கியம்?
 அ. வியப்பு ஆ. கட்டளை இ. வினா ஈ. செய்தி
45. பொருத்துக.
- | | | |
|-------------|---|----------------|
| அ. நடந்தாள் | - | 1. தொழிற்பெயர் |
| ஆ. நடந்த | - | 2. வினையெச்சம் |
| இ. நடந்து | - | 3. பெயரெச்சம் |
| ஈ. நடத்தல் | - | 4. வினைமுற்று |
- | | | | | |
|----|---|---|---|---|
| | ஆ | ஆ | இ | ஈ |
| அ. | 4 | 3 | 2 | 1 |
| ஆ. | 2 | 3 | 1 | 4 |
| இ. | 3 | 4 | 1 | 2 |
| ஈ. | 4 | 2 | 3 | 1 |

ANSWERS (GK 6)

EVERYDAY SCIENCE:	1.A	2.C	3.D	4.C	5.A	6.A	7.A	8.D	9.B	10.C
GENERAL STUDIES:	11.B	12.A	13.C	14.A	15.A	16.C	17.A	18.A	19.D	20.C
CURRENT AFFAIRS:	21.A	22.D	23.A	24.D	25.D	26.D	27.C	28.A	29.B	30.B

21. Answer: A [Narendra Modi] The 48th annual meeting of the World Economic Forum (WEF-2018) will be held in Davos, Switzerland on January 22, 2018. Prime Minister Narendra Modi will lead the largest-ever Indian delegation. The delegation will comprise of Finance Minister Arun Jaitley, Commerce and Industry Minister Suresh Prabhu among others. The theme of the 2018 summit is "Creating a shared future in a Fractured World", which aims to set an agenda to address political, economic and Social challenges of recent times. This year, over 3,000 global leaders from business, government, politics, academia and social sectors are participating at the Summit which will conclude on 26th of January. The purpose of the WEF is to improve the state of the world. WEF is an international organization for public-private cooperation which brings together global leaders from different sectors including business, politics, academia and journalism to discuss the most pressing issues facing the world.

22. Answer: D [India] Indian cricket team has won the 5th edition of Blind Cricket World Cup 2018 by defeating Pakistan in the final by two wickets at Sharjah in United Arab Emirates (UAE). With this, India has retained the World Cup for the Blind. In the final, Pakistan batted first and managed to score 308/8 after being put into bat by India. India chased down the target of 309 with 16 balls to spare to clinch the title. Thus, India maintained their unbeaten record in the tournament.

23. Answer: A [Arunachal Pradesh] Pema Khandu, the Chief Minister of Arunachal Pradesh, has inaugurated the World War II Memorial Museum in Jairampur in Changlang District on January 21, 2018. The war memorial has the collection of the remnants of World War 2, personal belongings of the soldiers and other persons involved. The museum also showcases traditional items from local Tangsa community. The memorial is a cemetery site where about 833 graves including mass graves have been discovered. The museum is built through funding from Union Ministry of Culture for Rs 2.25 crores and executed by state PWD.

24. Answer: D [Lucknow] The fourth edition of India International Science Festival (IISF) will be held in Lucknow, Uttar Pradesh. The exact dates and other details will be decided later. The 1st IISF was held at IIT New Delhi in December, 2015. The mega S&T expo attracted more than 3 lakh people. India had also set a Guinness Book of World Records, when 2000 school students performed two experiments at the Festival. The 2nd Festival at CSIR-National Physical Laboratory, New Delhi in December 2016 showcased Indian achievements in various fields of science and technology. The third in the series was held in October 2017 in Chennai.

25. Answer: D [62nd] India has been ranked at the 62nd place among emerging economies on an Inclusive Development Index (IDI-2018) released by World Economic Forum (WEF). India's position is much below China (26th) and Pakistan (47th). The 2018 index, which measures the progress of 103 economies on three individual pillars – growth and development; inclusion; and inter-generational equity – has been divided into two parts. The first part covers 29 advanced economies and the second 74 emerging economies. Norway remains the world's most inclusive advanced economy, while Lithuania again tops the list of emerging economies. The index takes into account the living standards, environmental sustainability and protection of future generations from further indebtedness.

26. Answer: C [Mauritius] Mauritius was the largest source of Foreign Direct Investment (FDI) in India in FY17, according to recent census by the Reserve Bank of India (RBI). It has 21.8% share at market value. As per RBI's data on Census on Foreign Liabilities and Assets of Indian Direct Investment Companies 2016-17, United States has acquired 2nd position followed by UK, Singapore and Japan. Beside this, Singapore (19.7% was the major FDI destination, followed by the Netherlands, Mauritius, and the USA. According to the data, manufacturing sector accounted for nearly half of the total FDI at market prices. Information and communication services, and financial and insurance activities were the other major sectors that attracted FDI.

27. Answer: A [Mysore] The All India Institute of Speech and Hearing (AIISH) is located at Mysore University Campus in Mysore, Karnataka. It is an autonomous institute under the Ministry of Health and Family Welfare. AIISH provides clinical services for speech, language, and hearing disorders through its clinical service program. The therapy clinic provides assessment and intervention services, for variety of speech, language, and hearing disorders, to individuals of all ages. It also offers public education programs and conducts workshops for speech-language pathologists, audiologists, educators for the hearing impaired, medical, and allied health professionals.

28. Answer: B [Chhattisgarh] The garbage festival 'Kachra Mahotsav' was organized by the Raipur Municipal Corporation in Chhattisgarh from January 19 to 21, 2018. This unique fest was organized by the Raipur Municipal Corporation. According to the municipal corporation, it was the India's first such festival. The purpose of this Garbage festival was to increase awareness, to guide people on waste management and to showcase multiple techniques for reusing things that are labelled as garbage. During the 3-day festival, talks, competitions and cultural performances were organized. In addition, different types of workshops were held to educate people on how effectively they can start managing their waste. In this fest, there were different stalls of utility items made out of waste.

29. Answer: B [Om Prakash Rawat] Om Prakash Rawat, the senior-most Election Commissioner, has been appointed as the new Chief Election Commissioner (CEC). He will succeed A.K. Joti on January 23, 2018 and will have tenure of almost a year till his retirement in December 2018. Mr Rawat will oversee elections in Tripura, Meghalaya and Nagaland scheduled next month. Crucial States like Karnataka, Madhya Pradesh, Rajasthan and Chhattisgarh will also go to the polls under his watch. Election Commissioners have a fixed term of six years but have to step down if they reach 65 years of age before their term expires.

30. Answer: D [Kamlesh Patel] President Ram Nath Kovind has unveiled a book on heartfulness techniques and principles titled 'The Heartfulness Way'. It was authored by Kamlesh Patel & Joshua Pollock. The books reflect the essence of prayer and yogic transmission aimed at deconstructing and demystifying the act of meditation based on meditation tips. It will enable us to live beyond the filters of our sensory limitations and discover unity within ourselves. To practise heartfulness is to seek the essence beyond the form, the reality behind the ritual. It is to centre oneself at the core of one's heart and find true meaning and contentment there. Heartfulness is an approach to the Raja Yoga system of meditation called Sahaj Marg or the Natural Path, founded at the turn of the twentieth century and formalised into the Shri Ram Chandra Mission in 1945 in India. The book was launched by Commerce and Industries Minister Suresh Prabhu.

QUANTITATIVE APTITUDE: 31.C 32.B 33.B 34.B 35.C

31. Answer C Explanation: Let the age of the youngest child = x

Then, the ages of 5 children can be written as x, (x+3), (x+6), (x+9), x, and (x+12)
 $x + (x+3) + (x+6) + (x+9) + (x+12) = 50 \Rightarrow 5x + 30 = 50 \Rightarrow 5x = 20 \Rightarrow x = 20/5 = 4$

32. Answer B Explanation: Let present age of the son = x years

Then, present age the man = (x+24) years

Given that, in 22 years, man's age will be twice the age of his son

$\Rightarrow (x+24) + 22 = 2(x+22) \Rightarrow x = 22$

33. Answer B Explanation: We know that angle traced by hour hand in 12 hrs = 360°

From 8 to 2, there are 6 hours. Angle traced by the hour hand in 6 hours = $6 \times 360 / 12 = 180^\circ$

34. Answer B Explanation :

Work done by 20 women in 1 day = 1/16 Work done by 1 woman in 1 day = $1 / (16 \times 20)$

Work done by 16 men in 1 day = 1/15 Work done by 1 man in 1 day = $1 / (15 \times 16)$

Ratio of the capacity of a man and woman = $1 / (15 \times 16) : 1 / (16 \times 20) = 1/15 : 1/20 = 1/3 : 1/4 = 4:3$

35. Answer C Explanation: Let monthly income of A = a, monthly income of B = b

monthly income of C = c

$a + b = 2 \times 5050$ (Equation 1) $b + c = 2 \times 6250$ (Equation 2) $a + c = 2 \times 5200$ (Equation 3)

(Equation 1) + (Equation 3) - (Equation 2)

$\Rightarrow a + b + a + c - (b + c) = (2 \times 5050) + (2 \times 5200) - (2 \times 6250)$

$\Rightarrow 2a = 2(5050 + 5200 - 6250) \Rightarrow a = 4000$ i.e., Monthly income of A = 4000

தமிழ் விடைகள் : 36.ஆ 37.அ 38.இ 39.அ 40.இ 41.ஆ 42.ஈ 43.ஈ 44.ஈ 45.அ



EVERYDAY SCIENCE

1. The gene was first used by
a. Johannsen b. Mendel c. Lamark d. Darwin
2. The number of autosomes in man is
a. 11 pairs b. 22 pairs c. 23 pairs d. 42 pairs
3. Insect responsible transmitting diseases are called?
a. Drones b. Vectors c. Transmitter d. Conductor
4. Root nodules are commonly found in
a. Leguminous plants b. epiphytic plants c. aquatic plants d. parasitic plants
5. pH of blood is ?
a. 10.4 b. 9 c. 7.4 d. 4
6. Which of the following is produced during the formation of photochemical smog ?
a. Nitrogen Oxides b. Hydrocarbons c. Methane d. Ozone
7. Which among the following is measured by an Odometer?
a. Pressure b. Height c. Distance d. Velocity
8. Consider the following:
1. Submarine Communications 2. AM Radio 3. Short Wave Radio 4. Radar
Arrange the above in increasing frequency of the waves used in their applications.
a. 4 3 2 1 b. 1 2 3 4 c. 2 1 4 3 d. 2 3 4 1
9. Which among the following waves are most commonly used in the Night Vision Devices?
a. Microwaves b. Infra Red Waves c. Ultra Violet Waves d. Radio Waves
10. Which gas is used in fire extinguishers?
a. Carbon dioxide b. Nitrogen oxide c. Carbon monoxide d. Sulphur dioxide

GENERAL STUDIES

11. Which state is hosting the 2018 National Handloom Expo (NHE)?
[A] Manipur [B] Assam [C] Arunachal Pradesh [D] Jharkhand
12. What is the India's GDP growth prediction for FY19, according to 2018 Economic Survey of India?
[A] 6.5 to 7.25% [B] 7 to 7.5% [C] 6.9 to 7.2% [D] 7.5 to 8.0%
13. Who has been honoured with the India's highest peacetime military decoration "Ashoka Chakra" at the 69th Republic Day?
[A] Khairnar Milind Kishor [B] Nilesh Kumar Narayan [C] Devendra Mehta [D] Jyoti Prakash Nirala
14. Who has become first woman chairman of Indian Banks' Association (IBA)?
[A] Archana Bhargava [B] Usha Ananthasubramanian [C] Arundhati Bhattacharya [D] Shikha Sharma
15. Which of the following has become the first Indian Metro to get a floating market?
[A] Kolkata [B] Mumbai [C] Delhi [D] Chennai
16. The Union Government has recently allowed which scheme for Small Finance Banks and Payments Banks?
[A] Midday Meal Scheme [B] Pradhan Mantri Kaushal Vikas Yojana
[C] Soil Health Card Scheme [D] Atal Pension Yojana
17. Who has created a national record in the 63kg women's category at the 33rd Women Senior National Weightlifting Championships?
[A] Amandeep Kaur [B] S Thasana Chanu [C] Karnam Malleswari [D] Rakhi Halder
18. Who has been appointed as the new Director General (DG) of Federation of Indian Chambers of commerce & Industry (FICCI)?
[A] Kumar Manish [B] Sanjaya Baru [C] Shyamal Mukherjee [D] Dilip Chenoy
19. Which country to host the 6th edition of ICC Women's World Twenty20 2018?
[A] Australia [B] England [C] New Zealand [D] West Indies
20. Which telecom company of India to launch its own cryptocurrency?
[A] Tata DoCoMo [B] Airtel [C] Reliance Jio [D] Idea Cellular

CURRENT AFFAIRS

21. Which state's tableau has won the best tableau award at the 69th Republic Day Parade 2018?
[A] Assam [B] Maharashtra [C] Karnataka [D] Chhattisgarh
22. The documentary 'Kailash' has won the US Documentary Grand Jury Award at Sundance Film Festival 2018. It is directed by whom?
[A] Purnima Raghunath [B] Derek Doneen [C] Sarah Anthony [D] Davis Guggenheim
23. The 2018 National Immunisation Day (NID) is celebrated on which date in India?
[A] January 29 [B] January 30 [C] January 28 [D] January 27
24. Who has won the 2018 men's Singles title in the Australian Open 2018?
[A] Marin Cilic [B] Novak Djokovic [C] Rafael Nadal [D] Roger Federer
25. Which union ministry to set up social media communication hubs in districts?
[A] Ministry of Information and Broadcasting [B] Ministry of Law and Justice
[C] Ministry of Panchayati Raj [D] Ministry of Women and Child Development
26. Who has been sworn-in as the new President of the Republic of Honduras?
[A] Salvador Nasralla [B] Juan Orlando Hernandez [C] Luis Orlando Zelaya [D] Xiomara Castro
27. What is the India's GDP growth prediction for FY19, according to 2018 Economic Survey of India?
[A] 6.5 to 7.25% [B] 7 to 7.5% [C] 6.9 to 7.2% [D] 7.5 to 8.0%
28. Who has taken charge as the new Foreign Secretary of India?
[A] Baldev Singh Dhillon [B] Manjit Singh Kang [C] K P S Sharma [D] Vijay Keshav Gokhale
29. Dr. Gurcharan Singh Kalkat, the noted Indian agricultural scientist has passed away. He hailed from which state?
[A] Uttar Pradesh [B] Haryana [C] Punjab [D] Himachal Pradesh
30. Who has been chosen for 5th edition of Yash Chopra Memorial Award 2018?
[A] Shah Rukh Khan [B] Amitabh Bachchan [C] Asha Bhosle [D] Lata Mangeshkar

QUANTITATIVE APTITUDE

31. If the cost price is 96% of the selling price, what is the profit percent?
Let SP = Rs.100. Then, CP. = Rs.96; Profit = Rs.4
a) 5.7 b) 4.7 c) 4 d) 5
32. A sum of Rs.12,500 amounts to Rs.15,500 in 4 years at the rate of simple interest. What is the rate of interest?
a) 3% b) 4% c) 5% d) 6%
33. A, B, and C enter into a partnership. They invest Rs.40,000, Rs.80,000 and Rs.1,20,000 respectively. At the end of the first year, B withdraws Rs.40,000, while at the end of the second year, C withdraws Rs.80,000. In what ratio will the profit be shared at the end of 3 years?
a) 2 : 3 : 5 b) 20 : 20 : 19 c) 20 : 19 : 18 d) None of these
34. Find the highest common factor of 36 and 84.
a) 4 b) 6 c) 12 d) 18
35. Bhanvarilal is younger than Prakash by 4 years. If their ages are in the respective ratio of 7 : 9, how old is Bhanvarilal?
a) 24.5 b) 25.5 c) 24 d) 25

TEST OF REASONING

36. Choose the image that completes the pattern



Which of the shapes below continues the sequence



(a) (b) (c) (d) (e)

37. Choose the image that completes the pattern



Which of the shapes below replaces the missing box above?



(a) (b) (c) (d) (e)

38. Choose the image that completes the pattern



Which of the shapes below replaces the missing box above?



(a) (b) (c) (d) (e)

39. A student works in a factory during the holidays. He earns 10 Euros an hour. He works 8 hours a day, 5 days a week. How much money has he earned at the end of 4 weeks of work?
(a) 800 Euros (b) 1,200 Euros (c) 1,600 Euros (d) 2,000 Euros
40. Crumb : Bread ::
(a) Ounce : Unit (b) Splinter : Wood (c) Water : Bucket (d) twine : rope

தமிழ்

41. 'தமிழ் - போர்ச்சுகீசியஅகராதி' என்ற நூலின் ஆசிரியர்?
அ. ராபர்ட் டி நொபிலி ஆ. ஸீகன் பால்கு இ. வீரமாமுனிவர் ஈ. எல்லீஸ்துரை
42. 'உச்சிமேற் புலவர் கொள்' என்றுபுகழப்படக்கூடியஉரையாசிரியர் ---- ?
அ. பேராசிரியர் ஆ. நச்சினார்க்கினியர் இ. சேனாவரையர் ஈ. கல்லாடர்
43. "வேர்த்தால் குளித்துப் பசித்தால் புசித்துவிழிதுயின்று
பார்த்தால் உலகத்தவர் போல் இருப்பார் பற்றற்றாரே" யார் கூற்று?
அ. அகத்தியர் ஆ. திருமூலர் இ. பட்டினத்தார் ஈ. தேரையர்
44. 'கருவறைவாசனை'என்றகவிதைத் தொகுப்பின் ஆசிரியர் யார்?
அ. மாலதிமைத்ரி ஆ. சல்மர் இ. வெண்ணிலா ஈ. குனிமொழி
45. 'பிற்காலக் காவியங்களுக்கெல்லாம் தாய்'எனவிளங்கும் நூல்?
அ. சீவகசிந்தாமணி ஆ. குளாமணி இ. வுளையாபதி ஈ. குண்டலகேசி
46. மதுரையில் ஆடைகள் விற்கும் கடைப்பகுதிமுன்னர் எவ்வாறுஅழைக்கப்பெற்றது?
அ. அறுவைவீதி ஆ. கூலவீதி இ. மறையவர் வீதி ஈ. பொன்வீதி
47. தொடைஎத்தனைவகைப்படும்?
அ. 8 ஆ. 5 இ. 40 ஈ. 13
48. தமிழ்நாட்டில் எத்தனைஎக்டேர் பரப்பளவில் சந்தனமரக் காடுகள் உள்ளன?
அ. 7,10,000 ஆ. 6,99,000 இ. 5,88,000 ஈ. 4,77,000
49. ரியூனியன் தீவில் வாழும் தமிழர்கள் பேசும் மொழி....
அ. பிரென்க ஆ. மாண்டரின் இ. மலாய் ஈ.ஆங்கிலம்
50. பொருத்துக.
அ. வைகை - 1.தூத்துக்குடி
ஆ. வைப்பார் - 2.திருநெல்வேலி
இ. துமிரபரணி - 3.விருதுநகர்
ஈ. குண்டாறு - 4.மதுரை

	ஆ	ஆ	இ	ஈ
அ.	4	3	2	1
ஆ.	2	3	1	4
இ.	3	4	1	2
ஈ.	4	2	3	1

ANSWERS (GK 7)

<u>EVERYDAY SCIENCE:</u>	1.A	2.B	3.B	4.A	5.C	6.D	7.C	8.B	9.B	10.A
<u>GENERAL STUDIES:</u>	11.B	12.B	13.D	14.B	15.A	16.D	17.D	18.D	19.D	20.C
<u>CURRENT AFFAIRS:</u>	21.B	22.B	23.C	24.D	25.A	26.B	27.B	28.D	29.C	30.C

21. Answer: B [Maharashtra] Maharashtra's tableau titled "Chhatrapati Shivaji Maharaj coronation" has won the best tableau award at the 69th Republic Day Parade 2018. Assam's tableau depicting traditional "masks and sastras" bagged the second prize. The third prize went to Chhattisgarh's display of Ramgarh's ancient amphitheatre and artistes performing dance based on Kalidasa's Meghadootam. Among the tableaux by Union Ministries and departments, the first prize went to "Khelo India" of the Youth Affairs and Sports Ministry. The Union Defence Minister Nirmala Sitharaman gave away the awards at Cariappa Parade Ground in Delhi Cantonment on January 28, 2018. Apart from this, the Punjab Regiment has bagged the award for the best marching contingent among the three services and the Indo-Tibetan Border Police (ITBP) among the paramilitary and other auxiliary forces in the 69th Republic Day parade.

22. Answer: B [Derek Doneen] The documentary titled 'Kailash' has won the US Documentary Grand Jury Award at the 2018 Sundance Film Festival at Park City in Utah on January 28. The documentary, which is directed by Derek Doneen, traces the journey of Indian Nobel laureate Kailash Satyarthi and his efforts to eliminate child trafficking and child labour. The film has been produced by Davis Guggenheim and Sarah Anthony, and co-produced by Purnima Raghunath.

23. Answer: C [January 28] President Ram Nath Kovind has launched the countrywide Pulse Polio programme for 2018 by administering polio drops to children below five years at the Rashtrapati Bhavan in New Delhi. The programme will cover around 17 crore children to maintain the country's polio-free status. The president administered the drops on the eve of 2018 National Immunisation Day (NID), which is observed on January 28.

24. Answer: D [Roger Federer] Roger Federer, a Swiss professional tennis player, has won the 2018 men's Singles title in the Australian Open 2018. He successfully defended his title by defeating 6th seeded Marin Cilic of Croatia by 6-2, 6-7, 6-3 3-6, 6-1. With this, Federer won his sixth title at the Australian Open equalling the record held by Roy Emerson and Novak Djokovic. The win has brought the Swiss to the elite group of Margaret Court, Serena Williams and Steffi Graf, the only players to have won 20 or more Grand Slam singles titles.

25. Answer: A [Ministry of Information and Broadcasting] The Union Information and Broadcasting Ministry has planned to set up a 'Social Media Communication Hub' that would help it keep a tab on trending news in districts and gather feedback on the Centre's flagship schemes. Under the project, media persons would be employed on contractual basis in each district to be the eyes and ears of the government and provide real-time updates from the ground. They would also take the people's feedback on the government's policies and follow the news trending in their areas. Experts would also be employed at the central level to analyse the feedback. Recently, the Broadcast Engineering Consultants India Limited (BECIL), a Public Sector Undertaking (PSU) under the ministry, had floated a tender to supply a software for the project. The tender document stated the platform is expected to provide automated reports, tactical insights and comprehensive work-flows to initiate engagement across digital channels.

26. Answer: B [Juan Orlando Hernandez] Honduran President Juan Orlando Hernández has been sworn-in for a second term in capital Tegucigalpa with high security after a disputed presidential election 2017. President Hernández, has been in power since 2013, and is the first president in Honduran running for a second term after the country's Supreme Court lifted a ban on re-election. It must be noted that, the country's 1982 constitution bars presidents from seeking a new term and conservative politicians deposed a leftist president in 2009 for allegedly even considering re-election. But, Hernandez won a Supreme Court ruling in 2015 to get around that prohibition.

27. Answer: B [7 to 7.5%] The Economic Survey 2017-18 has tabled by Union Finance Minister Arun Jaitley in Parliament on January 29, 2018. The survey has predicted 7 to 7.5% of India's GDP growth in FY 2018-19. It says that a series of major reforms undertaken over the past year will allow real GDP growth to reach 6.75% this fiscal and will rise to 7.0 to 7.5% in 2018-19. It stated that the employment, education and agriculture will be the focus areas in the midterm. The survey underlines that due to the launch of transformational Goods and Services Tax (GST) reform, resolution of the long-festering Twin Balance Sheet problem, implementing a major recapitalization package to strengthen the public sector banks, further liberalization of FDI and the export uplift from the global recovery, the economy began to accelerate in the second half of the year and can clock 6.75% growth this year.

28. Answer: D [Vijay Keshav Gokhale]

Vijay Keshav Gokhale, the 1981-batch Indian Foreign Service (IFS) officer, has taken charge as the new Foreign Secretary of India on January 29, 2018. Prior to this post, Gokhale was serving as the Secretary (Economic Relations) in the Ministry of External Affairs (MEA). He succeeded S Jaishankar and will have a two-year tenure. Gokhale had played a key role in negotiations to resolve the Doklam standoff between Indian and Chinese armies in 2017. He also served as India's Ambassador to China, Germany and worked in Indian missions in Hong Kong, Hanoi and in New York. Beside this, he is the only IFS to have served as India's Representative both in Taiwan and China.

29. Answer: C [Punjab] Dr. Gurcharan Singh Kalkat (91), the former agriculture commissioner of India and Padam Shri and Padam Bhushan awardee, has passed away in Chandigarh, Punjab on January 27, 2018. He was known for his contribution during the Green Revolution era which led to a boom in the production of wheat and rice in the country. He was the one who even ushered a soybean revolution in Punjab. Kalkat was also the former vice-chancellor of Punjab Agricultural University (Ludhiana) from 1998-2001.

30. Answer: C [Asha Bhosle] Asha Bhosle, the legendary playback singer, will be awarded with the 5th edition of Yash Chopra Memorial Award 2018 for her outstanding contribution to the Hindi film industry. The award will be presented to her on February 16. The previous recipients are Lata Mangeshkar, Amitabh Bachchan, Rekha and Shah Rukh Khan. The award has been instituted by the TSR Foundation of T. Subbarami Reddy in memory of producer-director Yash Chopra, who died in 2012. Asha Bhosle has officially acknowledged by the Guinness Book of World Records as the most recorded artist in music history. In her illustrious music career spanning nearly seven decades she has recorded over 11,000 songs in 20 different languages. The Government of India (GoI) has honoured her with the Dadasaheb Phalke Award (2000) and the Padma Vibhushan (2008).

QUANTITATIVE APTITUDE: 31.B 32.D. 33.D 34.C 35.A

31. Answer (b). Profit% = $\left\{\frac{4}{96} \times 100\right\} \% = \frac{25}{6} \% = 4.17\%$

32. Answer (d). S.I. = Rs. (15,500 - 12500) = Rs.3000 Rate = $\left\{\frac{100 \times 3000}{12500 \times 4}\right\} \% = 6\%$

33. Answer (d). A : B : C = (40,000 x 36) : (80,000 x12 + 40,000 X 24) : (120000 X 24 + 40,000 12)
= 144 : 192 : 336 = 3 : 4 : 7

34. Answer (c). 36 = 2² x 3²; 84 = 2² x 3 x 7. Therefore H.C.F. = 2² x 3 = 12

35. Answer (a). $\frac{x-7}{x} = \frac{7}{9}$ <=> 9x - 63 = 7 <=> 2x = 63 <=> x = 315 x

Hence, Bhanvarilal age = (x -7) = 24.5 years.

TEST OF REASONING: 36.C 37.D 38.B 39.C 40.B

36. The next frame after each step portrays a mirror image of the previous frame. In addition, every two steps a shape is added to the frame. Answer choice 3 is a mirrored version of frame 5. Ans.(C)

37. Each object in the series consists of 3 shapes. The logic of the sequence is defined by the relations between theses shapes. The external shape appears as the middle shape in the next frame; the middle shape disappears in the next frame; the inner shape determines the external shape two steps forward, e.g. the inner pentagon in the first frame appeared as the external shape in the third frame. Ans.(D)

38. Each square contains 3 shapes. The black circle is the only shape that constantly appears. It "travels" along the column up and down, one step at a time. The other shapes appear in two consecutive squares, and then do not appear in the next square. The shape that remains in the frame (in regards to the last step from the left) maintains its relative position to the other shape (not the circle). Ans. (B)

39. Daily wage = 10 Euros x 8 hours
Weekly wage = Daily wage x 5 days
Wage after 4 weeks = Weekly wage x 4 weeks Ans. (C) 1,600 Euros

40. Ans. (B) Splinter : Wood

தமிழ் விடைகள் : 41.அ 42.ஆ 43.இ 44.ஈ 45.அ 46. 47.ஈ 48.இ 49. 50.அ



EVERYDAY SCIENCE

1. Name the instrument used to measure the altitude in aircrafts
A. Audiometer B. Ammeter C. Altimeter D. Anemometer
2. On which one of the following conservation laws, does a rocket work?
A. Mass B. Energy C. Linear momentum D. Angular momentum
3. Which atmospheric layer helps in radio transmission?
A. Ozonospher B. Ionosphere C. Stratosphere D. Mesosphere
4. Which gas is used to manufacture vanaspati from vegetable oil is
A. carbon dioxide B. nitrogen C. oxygen D. hydrogen
5. What is the pH of blood?
A. 10.4 B. 9 C. 7.4 D. 4
6. Petroleum is found in
A. Marshy land B. Metamorphic rocks C. Igneous rock D. Sedimentary rocks
7. Which one of the following disease is not transmitted by tiger mosquitoes ?
A. Dengue B. Chikungunya C. Japanese Encephalitis D. Yellow fever
8. What is scientific name of Mango?
A. Bosindicus B. Mangifera indica C. Musca domestica D. Oryza sativa
9. White blood corpuscles are used by our body?
A. to carry oxygen B. to dissolve proteins C. to combat infection D. to help liver work
10. Which one of the following air pollution can affect blood stream leading to death ?
A. Cadmium B. Asbestos dust C. Carbon monodioxide D. Lead

GENERAL STUDIES

11. India's largest public WiFi service has been launched by which state government?
a) Karnataka b) Telangana c) West Bengal d) Maharastra
12. Who said "a good citizen makes a good state and abad citizen makes a bad state"?
a) Laski b) Roussau c) Aristotle d) Plato
13. Mughal culture greatly influenced india?
a) Architectre b) Painting c) sculpture d) Dance
14. Who was the first women chief minister of a state?
a) Sarojini Naidu b) Sucheta kriplani c) Vijayalaxmi pandit d) Jayalalitha
15. Which city is hosting the national conference on doubling farmers income?
a) Hyderabad b) New Delhi c) Kochi d) Chennai
16. Who has been conferred with the 2017 sahitya akademi award for assamese literature?
a) Vyakaranna baso varsh b) Urmi ghanshyam Desai c) Afsar Ahmed d) Jayant Madhab Bora
17. Who has been elected as the new president of sahitya akademi?
a) Chandrashekhara Kambar b) Madhav Koushik c) Prathibha Ray d) Bhalachandra Namade
18. Which state has won the senior women's national Football Championship 2018?
a) Manipur b) Madhya Pradesh c) Punjab d) Tamil Nadu
19. The world's tallest hotel 'GEVORA' has opened in which city?
a) Paris b) Beijing c) Tokyo d) Dubai
20. Which state to launch cheap sanitary pad scheme "Asmita Yojana" for rural women ?
a) Punjab b) Haryana c) Maharastra d) Rajasthan

CURRENT AFFAIRS

21. According to a new report by London-based global think-tank, India's budget for which sector has broken into the worlds top five?
a) Defence b) Agriculture c) Education d) Space and Technology
22. The government of which state launched the DASTAK campaign to eradicate Japanise Encephalitis?
a) Madhya Pradesh b) Uttar Pradesh c) Rajasthan d) Maharashtra
23. Which nation is the latest to withdraw from the UN refugee programme?
a) Tanzania b) Zambia c) Kenya d) Ghana
24. The 'Darwin Week' was launched in which city?
a) Hyderabad b) Mumbai c) Kolkata d) Pune
25. Which Indian cricketer became the first Indian to score a century in his 100th ODI?
a) Rohit Sharma b) Virat Kohli c) Ajinkya Rahane d) Shikhar Dhawan
26. Which state has announced a one-time loan waiver of upto Rs. 50,000 for small & marginal farmers?
a) Uttar Pradesh b) Madhya Pradesh c) Gujarat d) Rajasthan
27. Who became the first Asian as well as the first Indian to swim across the Ocean Seven?
a) Sandeep Sejwal b) Rohan More c) Virbhawal Khade d) Khajan Singh
28. According to ADR report on current Chief Ministers of India, which CM is the wealthiest with the highest number of declared assets against his name?
a) Pema Khandu b) Amarinder Singh c) Chandrababu Naidu d) Devendra Fadnavis
29. The first-of-its-kind Centre for learning Sanskrit language was launched in which city?
a) Ranchi b) Mathura c) Patna d) Ahmedabad
30. Which Chief Minister was found to be the poorest among all the current CMs in the ADR report?
a) Mamata Banerjee b) Manik Sarkar c) Mehbooba Mufti d) Yogi Adityanath

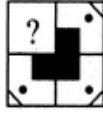
QUANTITATIVE APTITUDE

31. A train is 100 meter long and is running at the speed of 30 km per hour. Find the time it will take to pass a man standing at a crossing.
a) 10 seconds b) 12 seconds c) 14 seconds d) 16 seconds

32. A train running at the speed of 60 km/hr crosses a pole in 9 seconds. Find the length of the train.
a) 150 meter b) 145 meter c) 140 meter d) 135 meter
33. A train of length 110 meter is running at a speed of 60 kmph. In what time, it will pass a man who is running at 6 kmph in the direction opposite to that in which the train is going?
a) 10 b) 8 c) 6 d) 4
34. A 270 metres long train running at the speed of 120 kmph crosses another train running in opposite direction at the speed of 80 kmph in 9 seconds. What is the length of the other train?
a) 220 meter b) 225 meter c) 230 meter d) 235 meter
35. Two trains 140 m and 160 m long run at the speed of 60 km/hr and 40 km/hr respectively in opposite directions on parallel tracks. The time which they take to cross each other, is
a) 9.8 sec b) 10.8 sec c) 11.8 sec d) 12.8sec

TEST OF REASONING

36. There are seven persons up on a ladder, A, B, C, D, E, F and G (not in that order). A is further up than E but is lower than C. B is in the middle. G is between A and B. E is between B and F. If F is between E and D, the person on the bottom step of the ladder will be
a) B b) F c) D d) E
37. If the 3rd day of a month is Monday, which one of the following will be the fifth day from 21st of this month?
a) Monday b) Wednesday c) Tuesday d) Friday
38. There are six villages A, B, C, D, E and F. F is 1 km to the west of D. B is 1 km to the east of E. A is 2 km to the north of E. C is 1 km to the east of A. D is 1 km to the south of A. Which three villages are in a line?
a) A, C, B b) C, B, F c) E, B, D d) A, D, E
39. Find out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



(X)



(1)



(2)

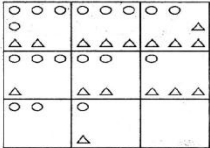


(3)



(4)

- a) 1 b) 2 c) 3 d) 4
40. Which of the following figures could fit in the empty block and thus complete the matrix ?



(a)



(b)



(c)



(d)

- a) a b) b c) c d) d

தமிழ்

41. பாரதியார் யாருடைய சாயலில் வசனகவிதை எழுதிட தொடங்கினார்?
அ) ஜார்ஜ் எல். ஹார்ட் ஆ) வால்ட் விட்மன் இ) லிண்ட்23ஹோம் ஈ) ஹால் சிப்மேன்
42. ஆங்கில மொழிக்கான எழுத்துருவம் எந்த நூற்றாண்டு கிடைக்கப் பெற்றது?
அ) கி.பி. 7 ஆ) கி.பி. 8 இ) கி.பி. 10 ஈ) கி.பி. 12
43. 'தமிழ்' மாநிலத்தின் ஆட்சி மொழியாக எப்போது நடைமுறைக்கு வந்தது?
அ) 1958 டிச ஆ) 1957 ஜன இ) 1958 ஜன ஈ) 1957 டிச
44. தமிழ்நாடு பரப்பளவில் இந்திய மாநிலங்களில் எத்தனையாவது இடத்தை வகிக்கின்றது?
அ) 3 ஆ) 6 இ) 9 ஈ) 11
45. செம்மொழி தர வரிசையில் எட்டாவதாக உள்ள மொழி எது?
அ) தமிழ் ஆ) இலத்தீன் இ) சீனம் ஈ) சமஸ்கிருதம்
46. 'உழவர் ஏரடிக்கும் சிறுகோலே அரசரது செங்கோலை நடத்தும் கோல்' எனக் கூறியவர்?
அ) பாரதியார் ஆ) கம்பர் இ) பாரதிதாசன் ஈ) கண்ணதாசன்
47. எட்டுத்தொகை நூல்களில் நாடகப் பாங்கில் அமைந்துள்ள நூல் எது?
அ) குறுந்தொகை ஆ) நற்றிணை இ) கலித்தொகை ஈ) ஐங்குறுநூறு
48. பொருந்தாச் சொல்லைக் கண்டறிதல், மாணிக்கம், முத்து, பவளம், கிளிஞ்சல்.
அ) மாணிக்கம் ஆ) முத்து இ) பவளம் ஈ) கிளிஞ்சல்
49. பின்வருவனவற்றுள் எது உருவகமன்று?
அ) மொழியமுது ஆ) அடிமலர் இ) தமிழ்த்தேன் ஈ) கயற்கண்
50. 'தென்னிந்தியாவின் ஏதென்ஸ்' – என அழைக்கப்படும் நகரம்?
அ) நெல்லை ஆ) தஞ்சை இ) மதுரை ஈ) கோவை

ANSWERS (GK 8)

EVERYDAY SCIENCE:	1.C	2.D	3.B	4.D	5.C	6.D	7.C	8.B	9.C	10.C
GENERAL STUDIES:	11.D	12.C	13.A	14.B	15.B	16.D	17.A	18.D	19.D	20.D
CURRENT AFFAIRS:	21.A	22.B	23.A	24.C	25.D	26.D	27.B	28.C	29.D	30.B

21. (a) Defence: According to a new report by a London-based global think-tank, India's defence budget has broken into the world's top five, beating the UK for the first time, signaling a key shift in the military balance between the two countries.

22. (b) Uttar Pradesh: The state government of Uttar Pradesh has launched massive door to door 'DASTAK campaign against Acute Encephalitis Syndrome (AES) and Japanese Encephalitis (JE)' to eradicate deadly diseases from the state. It was launched in association with UNICEF (United Nations Children's Fund).

23. (a) Tanzania: Tanzania has announced its withdrawal of United Nation's "Comprehensive Refugee Response Framework" citing security reasons and lack of funds. Tanzania has long been considered as safe haven for refugees, particularly from conflict hit Democratic Republic of Congo (DRC) and Burundi.

24. (c) Kolkata: Scientists in Kolkata came together on February 12, 2018 to observe the 'Darwin Week' to effectively put an end to any confusion regarding his 'Theory of Evolution'. The week will be celebrated from February 12 to February 18.

25. (d) Shikhar Dhawan: Indian opening batsman Shikhar Dhawan created history by becoming the first Indian to score a century in his 100th One-day International. The only other Indian batsman to have come close to achieving the feat was former Indian skipper Saurav Ganguly.

26. (d) Rajasthan: The Rajasthan Chief Minister Vasundhara Raje on February 12, 2018 announced a one-time loan waiver of up to Rs. 50,000 for small and marginal farmers in the state. In her budget speech in the assembly, Raje also announced to set up a farmer's loan relief commission where farmers can present their side for getting relief on merit basis.

27. (b) Rohan More: Rohan More became the first Asian as well as the first Indian to swim across the Ocean Seven. He is also the youngest person in the world to do so. Moreover, he has become the ninth person in the world to have completed the Ocean Seven challenge.

28. (c) Chandrababu Naidu: The Association for Democratic Reforms (ADR) and National Election Watch (NEW) has released a report on the financial, educational and criminal background of all the current Chief Ministers. Among them, Andhra Pradesh Chief Minister Chandrababu Naidu was found to be the wealthiest with declared assets worth over Rs 1,77,48,95,611 crore.

29. (d) Ahmedabad: Union Home Minister Rajnath Singh launched the Centre for learning Sanskrit language at Gujarat University in Ahmedabad. The first-of-its-kind spoken Sanskrit centre will offer a six-month course for people on how to speak the language.

30. (b) Manik Sarkar: The Association for Democratic Reforms (ADR) and National Election Watch (NEW) has released a report on the financial, educational and criminal background of all the current Chief Ministers. Among them, the lowest declared assets worth Rs 26,83,195 lakh belonged to Tripura Chief Minister Manik Sarkar.

QUANTITATIVE APTITUDE: 31.B 32.A 33.C 34.C 35.B

31. Answer: Option B

As we need to get answer in seconds, so never forget to convert speed into meter per second.

Speed = 30 km/hr = $30 \times \frac{5}{18}$ m/sec = $\frac{25}{3}$ m/sec

Distance = length of train = 100 meter

Required time = Distance/Speed = $100 \times \frac{3}{25} = 100 \times \frac{3}{25} = 12$ sec

32. Answer: Option A

Speed = $60 \times \frac{5}{18}$ m/sec = $\frac{50}{3}$ m/sec

Length of Train (Distance) = Speed X Time = $(\frac{50}{3}) \times 9 = 150$ meter

33. Answer: C

Distance = 110 m

Relative speed = $60 + 6 = 66$ kmph (Since both the train and the man are in moving in opposite direction) = $(66 \times \frac{5}{18})$ m/sec = $\frac{55}{3}$ m/sec

Required time = Distance/Speed = Time taken to pass the man = $(110 / \frac{55}{3}) = 110 \times (\frac{3}{55}) = 6$ s

34. Answer: Option C

As trains are running in opposite directions so their relative speed will get added

So, Relative speed = $120 + 80 = 200$ kmph = $200 \times (\frac{5}{18}) = \frac{500}{9}$ m/sec

Let the length of other train is x meter then

$(x + 270) / 9 = 500 / 9 \Rightarrow x + 270 = 500 \Rightarrow x = 230$, So the length of the train is 230 meters

35. Answer: Option B

Relative Speed = $60 + 40 = 100$ kmph = $100 \times (\frac{5}{18}) = \frac{250}{9}$ m/sec

Distance = $140 + 160 = 300$ meters

Time = Distance/Speed = $300 / \frac{250}{9} = 300 \times (\frac{9}{250}) = \frac{54}{5} = 10.8$ seconds

So the time trains will take to cross each other will be 10.8 seconds

TEST OF REASONING: 36.C 37.B 38.D 39.D 40.A

தமிழ் விடைகள் : 41. ஆ 42. அ 43. இ 44. ஈ 45. அ 46. ஆ 47. இ 48. ஈ 49. ஈ 50. இ



EVERYDAY SCIENCE

- Which among the following was first human-made plastic?
[A] Bakelite [B] Polyethene [C] Celluloid [D] Nylon
- The colors in the fine cut diamond are because of which among the following?
[A] Variance in transparency of diamond [B] Variance in index of refraction
[C] Presence of Impurities [D] Existence of definite planer layers
- Froth & Foams are examples of which of the following ?
[A] solid suspended in gas [B] liquid suspended in gas
[C] gas suspended in liquid [D] gas suspended in solid
- The easily noticed smell of the LPG gas is because of which among the following?
[A] Butane [B] Propane [C] Methane [D] Ethanethiol
- Which among the following is studied under "fulminology"?
[A] Sudden changes in atmosphere [B] Lightning [C] Cloudbursts [D] Volcanic Eruptions
- Which among the following is the most common cause of Sunburn?
[A] Ultraviolet Radiation [B] Visible Radiation [C] Infrared Radiation [D] Microwave Radiation
- Which among the following kinds of glass is used generally in making of the Bullet proof screens?
[A] Pyrex glass [B] Jena glass [C] Reinforced Glass [D] Flint Glass
- Which among the following is not a 'hereditary' disease?
[A] Thalessemia [B] Colour-Blindness [C] Haemophilia [D] Leukemia
- Nephron is the basic structural and functional unit of which among the following organs?
[A] Nervous System [B] Liver [C] Pancreas [D] Kidney
- In which organ RBC are selectively destroyed/ recycled by macrophages?
[A] Spleen [B] Kidney [C] Liver [D] Pancreas

GENERAL STUDIES

- The Indian Navy will host the multi-national MILAN series of exercises in which state/UT?
[A] Daman & Diu [B] Gujarat [C] West Bengal [D] Andaman and Nicobar islands
- What is the theme of the 21st National conference on e-Governance 2018?
[A] Internet of Things and e-Governance [B] Technology for Accelerating Development
[C] Artificial Intelligence & e-Governance [D] Technology for Humankind
- Who has won the gold in the men's event at the IDBI Federal Life Insurance New Delhi Marathon 2018?
[A] Gopi Thonakal [B] Nirbhay Athare [C] Bahadur Singh Dhoni [D] Nitendra Singh Rawat
- The Aditya Birla Idea Payments Bank has started operations. As per which section of the Banking Regulation Act 1949, the RBI issued license to the bank?
[A] Section 23 (1) [B] Section 24 (1) [C] Section 22 (1) [D] Section 21 (1)
- The Jawahar Sagar Dam is built across which river in Rajasthan?
[A] Tapti river [B] Chambal river [C] Narmada river [D] Son river
- Which country to host the 2018 SAARC Business Leaders' Conclave?
[A] Nepal [B] Myanmar [C] India [D] Sri Lanka
- Aruna Budda Reddy has created history by becoming the first Indian gymnast to win an individual medal at the 2018 Gymnastics World Cup. She hails from which city?
[A] Kochi [B] Hyderabad [C] Chennai [D] Kolkata
- The International Conference on Sustainable Biofuels (ICSB-2018) will be organized in which city?
[A] Patna [B] Guwahati [C] New Delhi [D] Shillong
- What is the theme of the 2018 International Mother Language Day (IMLD)?
[A] Quality education, language(s) of instruction and learning outcomes
[B] Inclusion in and through education: Language counts
[C] Linguistic diversity and multilingualism count for sustainable development
[D] Towards Sustainable Futures through Multilingual Education
- The Uttar Pradesh government has signed pact with which online company for khadi products sale?
[A] FlipKart [B] Paytm [C] Amazon India [D] PhonePe

CURRENT AFFAIRS

- Which country to host the 2018 SAARC Business Leaders' conclave?
(a). Nepal (b).Myanmar (c).India (d).Sri Lanka
- Which Indian Sportsman has clinched the men's singles title at the Austrian Open International challenge badminton tournament?
(a).Srikanth kidambi (b).H.S.Prannoy (c).B.Sai Praneeth (d). Parupalli kashyap
- Aruna Budda Reddy has created history by becoming the first Indian gymnast to win an individual medal at the 2018 Gymnastics world cup. She hails from which city?
(a). Kochi (b).Hyderabad (c).Chennai (d).Kolkata
- Who authored the book "Hari Singh Nalwa: Champion of the Khalsaji - 1791-1837"?
(a). Vani Nalwa (b).Aravind Adiga (c).Chitra Banerjee Divakaruni (d). Rohinton Mistry
- India and Signed how much amount of loan with Asian Development Bank (ADB) for improvement and expansion of water supply in Bihar?
(a).\$ 84million (b).\$ 68million (c).\$ 95million (d).\$ 111million
- The Reserve Bank of India (RBI) has recently launched the Ombudsman Scheme for NBFCs.The NBFC Ombudsman will have office in which of the following cities?
(a). Kolkata (b). Chennai (c). New Delhi (d). All of the above
- Which city hosted the 4th edition of Economic Times - Global Business Summit (ET-GBS 2018)?
(a). Pune (b). New Delhi (c). Mumbai (d). Hyderabad
- The International Conference on Sustainable Biofuels (ICSB-2018) will be organized in which city?
(a). Patna (b). Guwahati (c).New Delhi (d).Shillong

29. Kunwar Bai, the brand ambassador of Swachch Bharat has passed away. She was native of which state?
 (a). Chhattisgarh (b). Madhyapradesh (c). Bihar (d). Rajasthan
30. Neelabh Mishra , who passed away recently, was associated with which field?
 (a). Sports (b). Law (c). Journalism (d). Film Industry

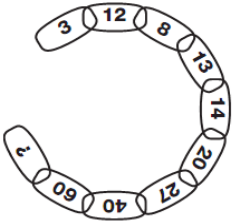
QUANTITATIVE APTITUDE

31. If one-third of one-fourth of a number is 15, then three-tenth of that number is:
 a) 35 b) 36 c) 45 d) 54
32. The product of two numbers is 120 and the sum of their squares is 289. The sum of the number is:
 a) 20 b) 23 c) 25 d) 27
33. A is two years older than B who is twice as old as C. The total of the ages of A, B and C is 27. How old is B?
 a) 10 b) 20 c) 25 d) 30
34. A man has Rs. 480 in the denominations of one-rupee notes, five-rupee notes and ten-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has?
 a) 70 b) 80 c) 90 d) 100
35. If $a - b = 3$ and $a^2 + b^2 = 29$, find the value of ab . a) 10 b) 12 c) 15 d) 28

TEST OF REASONING

36. Which number replaces the question mark?

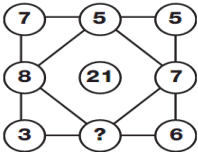
Which number replaces the question mark?



- a) 83 b) 93 c) 103 d) 113

37. Pick the odd one out:
 a) T b) V c) X d) Z
38. The number that comes next in the series: 8, 9, 64, 25, 216,____. a) 36 b) 49 c) 81 d) 343
39. Which number replaces the question mark?

Which number replaces the question mark?



- a)1 b) 2 c) 3 d) 4

40. Which among the following is not an ideal couple?
 a) May-October b) July-August c) January-March d) April-November

தமிழ்

41. தொல்காப்பியத்திற்கு பாயிரம் பாடியவர்?
 அ. பனம்பாரனார் ஆ. அகத்தியர் இ. இளம்பூரணர் ஈ. பேராசிரியர்
42. முன்பணிக்காலத்திற்கான மாதங்கள் எவை?
 அ. ஐப்பசி, கார்த்திகை ஆ. மார்கழி, தை இ. மாசி, பங்குனி ஈ. ஆவணி, புரட்டாசி
43. பன்னாடு தந்த மாறன்வழுதி தொகுப்பித்த எட்டுத்தொகை நூல் -----
 அ. குறுந்தொகை ஆ. ஐங்குறுநூறு இ. நற்றிணை ஈ. அகநானூறு
44. மதுரைகாஞ்சி எந்நில மக்களைப் பற்றிய செய்திகளை இயம்புகிறது?
 அ. குறிஞ்சி ஆ. முல்லை இ. பாலை ஈ. மருதம்
45. ‘யாழும் குழலும் முழவும் இயைந்தென, வீழும் அருவி விறன்மலை’ என்ற வரி இடம்பெற்ற நூல் எது?
 அ. திணைமொழி 50 ஆ. திணைமாலை 150 இ. ஐந்திணை 70 ஈ. ஐந்திணை 50
46. சீவகனை எடுத்து வளர்த்த வணிகன் யார்?
 அ. சச்சந்தன் ஆ. கந்துக்கடன் இ. கட்டியங்காரன் ஈ. அச்சணந்தி
47. கருவூர்த்தேவர் எந்த நூற்றாண்டினைச் சார்ந்தவர்?
 அ. கி.பி.8 ஆ. கி.பி.5 இ. கி.பி.11 ஈ. கி.பி.13
48. பிள்ளைத்தமிழ் நூலில் முத்த பருவ நிலையைக் குறிக்கும் மாதங்கள் எவை?
 அ. 5-6 ஆ. 7-8 இ. 9-10 ஈ. 11-12
49. ‘நச்சுக்கோப்பை’ என்ற காவியப்படைப்புக்குச் சொந்தக்காரர்----
 அ. கலைஞர் கருணாநிதி ஆ. அண்ணா இ. சோ ஈ. கே.பாலசுந்தர்
50. அங்கிகாரம், வலம்புரி என்னும் சிறுகதைத் தொகுப்பின் ஆசிரியர் -----
 அ. திலகவதி ஆ. பாக்கியா இ. அனூராதா ஈ. அம்பை

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ANSWERS (GK 9)

EVERYDAY SCIENCE:	1.C	2.C	3.C	4.D	5.B	6.A	7.C	8.D	9.D	10.A
GENERAL STUDIES:	11.D	12.B	13.A	14.C	15.B	16.A	17.B	18.C	19.C	20.C
CURRENT AFFAIRS:	21.A	22.D	23.B	24.A	25.A	26.D	27.B	28.C	29.A	30.C

21.(a)Nepal: The 2018 SAARC Business Leaders’ Conclave will be held in Kathmandu, Nepal from March 16 to 18, with an objective to promote investment, innovation and entrepreneurship in the region. The bi-annual event of the SAARC Chamber of Commerce and Industry (SAARC-CCI) is going to be held in Nepal for the second time and the government is going to host the regional event jointly with SAARC-CCI. Former President of India, Pranab Mukherjee, has been invited to deliver a keynote speech in the conclave. Former president of Sri Lanka Chandrika Bandaranaike Kumaratunga has also been invited to address the meet. Top-notch business people from the region will be addressing the conclave. India has so far conducted this event three times, and Nepal and Sri Lanka have organised it once so far.

22.(d)Parupalli Kashyap: Reigning Commonwealth Games champion Parupalli Kashyap has won men’s singles title at the 2018 Austrian Open International Challenge badminton tournament. He defeated Malaysia’s June Wei Cheam in straight games late last night to clinch his first international title in over three years. Kashyap looked in good touch throughout the tournament as he didn’t drop a single game en route to his title win.

23.(b)Aruna Buddha Reddy: Aruna Budda Reddy, who hails from Hyderabad, has competed at the 2018 Gymnastics World Cup and created history after becoming the first Indian gymnast to win a medal in an individual event at the Gymnastics World Cup by claiming a bronze medal in the women’s individual vault event at Hisense Arena in Melbourne, Australia on February 24, 2018. Aruna scored 13.649 average points to finish third and claim the bronze medal at the Hisense Arena. Tjasa Kysslef of Slovenia took home the Gold, while Emily Whitehead of Australia won the Silver.

24.(a)Vani Nalwa: On February 23, the Director General of National Archives of India (NAI) – Pritam Singh launched a Book reading series –“Archives Reads” in New Delhi to showcase importance of archival records. This Book Reading Series commenced with the book titled “Hari Singh Nalwa: Champion of the Khalsaji – 1791-1837” authored by Dr. Vanit Nalwa, a senior consultant Psychologist. This book chronicles the life and times of Sardar Hari Singh Nalwa, one of the great pillars of Maharaja Ranjit Singh’s empire. Hari Singh Nalwa was the commander-in-chief of the Sikh army along its border with Afghanistan.

25.(a)\$ 84million :The Government of India (GoI) and the Asian Development Bank (ADB) have signed a \$84 million loan for improvement and expansion of water supply in Bhagalpur and Gaya towns in Bihar. This is the second tranche of ADB’s \$200 million Multi-tranche Financing Facility (MFF) for Bihar Urban Development Investment Programme, which was approved in 2012. The Project 2 will improve access to better quality and sustainable water supply, for the people of Bhagalpur and Gaya towns. It will also promote better water management practices that will result in a citywide coverage with 24-hour uninterrupted supply of treated water of 135 litres per capita per day in both cities. The loan will have a 25-year term, including a grace period of 5 years, an annual interest rate determined in accordance with ADB’s lending facility based on the London Interbank Offered Rate (LIBOR), and a commitment charge of 0.15% per year.

26.(d) All of the above: The Reserve Bank of India (RBI) has launched Ombudsman Scheme for redressal of complaints against the Non-Banking Financial Companies (NBFCs). The scheme will provide a cost-free and expeditious complaint redressal mechanism relating to deficiency in the services by NBFCs covered under the scheme. The scheme will cover all deposit-taking NBFCs, and based on the experience gained. The scheme will initially cover all deposit-taking NBFCs, and will subsequently include companies with asset size of Rs 100 crore and above with customer interface. Additionally, the mechanism will provide an option to the NBFC in question to appeal against the decision of the Ombudsman before the appellate authority. The NBFC Ombudsman will have offices in four cities – New Delhi, Mumbai, Chennai, and Kolkata – and will handle complaints of customers in the respective zones.

27.(b)New Delhi: The 4th edition of Economic Times – Global Business Summit (ET-GBS 2018) was held in New Delhi with theme “New Economy – New Rules” on February 23-24. The GBS is a flagship initiative of the Times Group that envisions to bring together visionaries, thought leaders, heads of state, policy makers, academicians and corporate heads cohesively driving a singular agenda for Scripting Economic Change, by connecting the building blocks of Economics for India and the Globe. It is a platform with multitude of policy makers and industry leaders under one roof.

28.(c)New Delhi :The International Conference on Sustainable Biofuels (ICSB-2018) is jointly being organized by Department of Biotechnology, Govt. of India on behalf of Mission Innovation and Biofuture Platform in New Delhi from February 26-27, 2018. The 2-day event will bring together experts from Biofuels sector to take stock of current knowledge, share information and best practices, and build consensus on the actions most needed to move forward. Senior Government Officers, Technical Experts, Academicians, Researchers and Representatives from various Countries, Industry and Investors will participate in the event. The Sustainable Biofuel is one of the Seven Mission Innovation Challenges and India Co-leads this along with other countries Brazil, Canada and China. The conference will seek to a clear understanding of the development in bio-economy made by participating countries, increase awareness of policy makers about the challenges faced by the industry-investor for commercial scale up of advanced biofuels.

29.(a)Chhattisgarh: Kunwar Bai (106), the brand ambassador of Swachh Bharat, has passed away at Raipur in Chhattisgarh on February 23, 2018. A resident of Kotabharri village in Dhamtari district, Kunwar Bai was in the national news as a mascot for Swachh Bharat campaign; she sold all her goats to construct a toilet at her home. Not only was she applauded by Prime Minister Narendra Modi, the PM also touched her feet and felicitated her during a public meeting in Rajnandgaon in February 2016.

30.(c)Journalism: Neelabh Mishra (57), the Veteran journalist and editor-in-chief of Delhi-based National Herald, has passed away in Chennai Hospital. In 2016, he steered the re-launch of National Herald, the newspaper founded by India’s first prime minister Jawaharlal Nehru in 1938, as a digital news website. In 2017, Mishra relaunched the National Herald as Sunday newspaper, and then National Herald’s sister publications Navjivan and Qaumi Awaz as news websites.

QUANTITATIVE APTITUDE: 31.D 32.B 33.A 34.C 35.A

31. Answer: Option D Explanation: Let the number be x. $\frac{1}{3} \text{ of } \frac{1}{4} \text{ of } x = 15$ $x = 15 \times 12 = 180$ $\frac{3}{10} \times 180 = 54$	32. Answer: Option B Explanation: Let the numbers be x and y. Then, $xy = 120$ and $x^2 + y^2 = 289$. $\therefore (x + y)^2 = x^2 + y^2 + 2xy = 289 + (2 \times 120) = 529$ $\therefore x + y = 529 = 23$.	33. Answer: Option A Explanation: Let age of C = x. Then, Age of B = 2 x Age of A = 2+2 x Total age of A,B and C =27 $\Rightarrow (2+2 x)+2 x + x = 27$ $\Rightarrow 5 x = 25 \Rightarrow x = 25/5 = 5$ B's age = 2 x = 2×5=10
34. Answer: Option C Explanation: Let number of notes of each denomination be x. Then $x + 5 x + 10 x = 480 \Rightarrow 16 x = 480 \therefore x = 30$. Hence, total number of notes = 3 x = 90.	35. Answer: Option A Explanation: $2ab = (a^2 + b^2) - (a - b)^2$ $= 29 - 9 = 20$ $\Rightarrow ab = 10$.	

TEST OF REASONING: 36.B 37.D 38.B 39.A 40.A

36. b) Add the numbers in first two segment and subtract 7 from it to get the next number in sequence.

37. d) except 'z' other alphabets have same mirror images of themselves.

38. b) It forms the order: $2^2, 3^2, 4^3, 5^2, 6^3, 7^2$

39. a) The four numbers in the corners of the square, and the four numbers in the middle of each side of the square add up to 21.

40. a) Both the month pairs are either 30 or 31, while option a) is couple of 30-31.

தமிழ் விடைகள் : 41.அ 42.ஆ 43.இ 44.ஈ 45.அ 46.ஆ 47.இ 48.ஈ 49. அ 50.ஆ

EVERYDAY SCIENCE

1. Which group of animals is Charles Darwin best known for studying?
(a) whales (b) **birds** (c) feral cats (d) lizards
2. Radio telescopes are better than optical telescopes because
a) they can detect faint galaxies which no optical telescope can
b) they can work even in cloudy conditions c) they can work during the day and night d) all the above
3. Cystitis is the infection of which of the following?
a) Liver b) urinary bladder c) pancreas d) lung
4. Water flows through a horizontal pipe at a constant volumetric rate. At a location where the cross sectional area decreases, the velocity of the fluid
a) Increases b) decreases c) stays the same d) none
5. Yeast, used in making bread is a
a) Plant b) fungus c) bacteria d) seed
6. Pick out an animal which has a four-chambered stomach.
a) Elephant b) Dolphin c) Deer d) Kangaroo
7. "Fool's gold" is a common name for this mineral
a) Halite b) cinnabar c) magnetite d) pyrite
8. Taxol is a drug currently being used to treat cancer, particularly resistant forms of breast cancer. anatural source of Taxol is:
a) bark and leaves of the yew tree b) apricot pits c) periwinkle flowers d) ginkgo leaves
9. Liquid fuels can be used to generate electricity in a variety of ways. Which of the following technologies converts liquid fuel directly to electricity without a combustion step?
a) Turbine b) battery c) fuel cell d) Stirling engine
10. The element which exists in the liquid state at room temperature and can be used for measuring High temperature and can be used for measuring high temperature is
a) Na b) Br c) Hg d) Ga

GENERAL STUDIES

11. The recommendation of 15th Finance Commission will be effect from which date?
a) January 1, 2018 b) April 1, 2018 c) April 1, 2020 d) January 1, 2020
12. Guerrilla warfare means
a) Regular warfare b) Practiced warfare c) Irregular warfare d) Mixed warfare
13. The capital of Pandya dynasty was
a) Mysore b) Kanchipuram c) Madurai d) Pondicherry
14. The 'Uruguay Round' negotiations resulted in the establishment of:
(a) NATO (b) OECD (c) WHO (d) WTO
15. Which one of the following countries is not a member of ASEAN?
(a) Vietnam (b) Brunei Darussalam (c) Bangladesh (d) Myanmar
16. What is Laissez-faire?
(a) Mixed economy (b) Controlled economy
(c) Non-interference of Government in economic affairs (d) None of these
17. Entrepreneurship Development Programme (EDP) is associated with
A. Eradication of illiteracy B. To make and prove women potential
C. To bring out talents of women D. Eradication of poverty
18. Tobacco was introduced in India by the
(a) French (b) Portuguese (c) English (d) Arabs
19. The Planning Commission in India is now known as
A. Planning Council B. NITI Aayog C. NITI Sanjog D. Bharatiya Aayog
20. Article 41 of the Constitution of India guarantees
A. Right to work B. Right to property C. Right to live D. Right to Against Exploitation

CURRENT AFFAIRS

21. Under Pradhan Mantri Gram Sadak Yojana Rs. 700 crores was sanctioned to _____ state.
a. Arunachal Pradesh b. Andra Pradesh c. Uttar Pradesh d. Jammu
22. which state government has decided to establish state Sanskrit education council.
a. Mumbai b. Tamil Nadu c. Delhi d. Uttarpradesh
23. _____ has been appointed as brand Ambassador by Luminous power technologies.
a) Sachin Tendulkar b) Virat Kohli c) Srikanth d) Kapildev
24. _____ has been appointed as new secretary of Higher Education Department in the MHRD.
a. R. Subramanyan b. Iraianbu c. Sagayam d. Sailendra Babu
25. Who unveiled the scheme called Arogya Karnataka
a. Basavappa b. Siddharamaiah c. Prakashjavadekar d. Ponradhakrishnan
26. Which state women's team won inter state national tennis championship 2018.
a. Maharashtra b. Tamilnadu c. Jammu d. Karnataka
27. India along with which country signed agreements to boost bilateral relations
a. Bangladesh b. Vietnam c. China d. Bhutan
28. _____ was observed as National civil accounts day.
a. March 01. b. March 02 c. February 28 d. March 03
29. _____ was observed as National Science day
a. 05th March b. February 28 c. February 25 d. 20th February
30. _____ was celebrated as world wild life day
a. 03rd March b. 05th March c. 25th February d. 20th February

QUANTITATIVE APTITUDE

31. When a plot is sold for Rs. 18,700, the owner loses 15%. At what price must that plot be sold in order to gain 15%?
a) Rs. 21,000 b) Rs. 22,500 c) Rs. 25,300 d) Rs. 25,800
32. A trader mixes 26 kg of rice at Rs. 20 per kg with 30 kg of rice of other variety at Rs. 36 per kg and sells the mixture at Rs. 30 per kg. His profit percent is:
a) No profit, no loss b) 5% c) 8% d) 10%
33. 39 persons can repair a road in 12 days, working 5 hours a day. In how many days will 30 persons, working 6 hours a day, complete the work?
a) 10 b) 13 c) 14 d) 15
34. Insert the missing number. 15, 31, 63, 127, 255, (....)
a) 513 b) 511 c) 517 d) 523
35. Find out the wrong number in the given sequence of numbers. 46080, 3840, 384, 48, 24, 2, 1
a) 1 b) 2 c) 24 d) 384

TEST OF REASONING

36. Look at this series: 22, 21, 23, 22, 24, 23, ... What number should come next?
a) 22 b) 24 c) 25 d) 26
37. Which word does NOT belong with the others?
a) guitar b) flute c) violin d) cello
38. Cup is to coffee as bowl is to
a) dish b) soup c) spoon d) food
39. SCD, TEF, UGH, _____, WKL
a) CMN b) UJI c) VIJ d) IJT
40. Which number completes the puzzle?

Which number completes the puzzle?



தமிழ்

41. உலகின் சாவா மூவா மருந்தாக நிலவுவது?
அ.தமிழ்மொழி ஆ.சமஸ்கிருதம் இ.கிரேக்கம் ஈ.எபிரேயம்
42. பாரதிதாசனுக்கு 'புரட்சிக்கவிஞர்' என்றப்பட்டம் வழங்கியவர்?
அ.அறிஞர் அண்ணா ஆ.பெரியார் இ.கலைஞர் ஈ.தேவநேயப்பாவாணர்
43. காகிதம் என்றசொல் எந்தமொழிக்குஉரியது?
அ.தமிழ் ஆ.ஆங்கிலம் இ. மராத்தி ஈ.பாரசீகம்
44. பொருநராற்றுப்படையின் பாட்டுடைத் தலைவர் -----?
அ.நன்னன் ஆ.செவ்வேள் இ.நல்லியக்கோடன் ஈ.கரிகாலன்
45. நாலடியாரின் அறத்துப்பால் எத்தனைஅதிகாரங்களைஉடையது?
அ. 13 ஆ.26 இ.70 ஈ.50
46. தமிழின் முதல் சமயக்காப்பியம் எது?
அ.சிலப்பதிகாரம் ஆ.மணிமேகலை இ.சீவகசிந்தாமணி ஈ.வளையாபதி
47. அப்பூதியடிகள் யாரைவழிபட்டார்?
அ.சிவபெருமான் ஆ.திருமால் இ.அப்பர் ஈ.ஞானசம்பந்தர்
48. கன்னன் என்றசொல்லின் பொருள் யாது?
அ.திருமால் ஆ.விஷ்ணு இ.கிருஷ்ணன் ஈ. கர்ணன்
49. இயேசுமகாவியம் என்ற நூலின் ஆசிரியர் -----
அ.நிர்மலாசுரேஷ் ஆ.கண்ணதாசன் இ.பாரதிதாசன் ஈ.பாரதியார்
50. தமிழ்க்காதல் என்னும் நூலின்ஆசிரியர் -----
அ. உ.வே.சா ஆ. வ.சுப.மாணிக்கம் இ. வ.வே.சு ஈ. க.நா.சு

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ANSWERS (GK 10)

<u>EVERYDAY SCIENCE:</u>	1.B	2.D	3.B	4.A	5.B	6.C	7.D	8.A	9.C	10.C
<u>GENERAL STUDIES:</u>	11.C	12.C	13.C	14.D	15.C	16.C	17.C	18.B	19.B	20.A
<u>CURRENT AFFAIRS:</u>	21.A	22.C	23.B	24.A	25.B	26.A	27.B	28.A	29.B	30.A
<u>QUANTITATIVE APTITUDE:</u>	31.C	32.B	33.B	34.B	35.C					

31. Answer: Option C

Explanation:

$$85 : 18700 = 115 : x$$

$$\Rightarrow x = \left(\frac{18700 \times 115}{85} \right) = 25300.$$

Hence, S.P. = Rs. 25,300.

32. Answer: Option B

Explanation:

C.P. of 56 kg rice = Rs. (26 x 20 + 30 x 36) = Rs. (520 + 1080) = Rs. 1600.

S.P. of 56 kg rice = Rs. (56 x 30) = Rs. 1680.

$$\therefore \text{Gain} = \left(\frac{80}{1600} \times 100 \right) \% = 5\%.$$

33. Answer: Option B

Explanation:

Let the required number of days be x .

Less persons, More days (Indirect Proportion)

More working hours per day, less days (Indirect Proportion)

$$\left. \begin{array}{l} \text{Persons} \quad \quad \quad 30 : 39 \\ \text{Working hours/day} \quad 6 : 5 \end{array} \right\} :: 12 : x$$

$$\therefore 30 \times 6 \times x = 39 \times 5 \times 12$$

$$\Rightarrow x = \frac{(39 \times 5 \times 12)}{(30 \times 6)}$$

$$\Rightarrow x = 13.$$

34. Answer: Option B

Explanation:

Each number is double the preceding one plus 1.

So, the next number is $(255 \times 2) + 1 = 511$.

35. Answer: Option C

Explanation:

The terms are successively divided by 12, 10, 8, 6, ...etc.

So, 24 is wrong, it should be 8 ($48/6 = 8$).

TEST OF REASONING:

36.C 37.B 38.B 39.C 40.9

36. Answer: C In this simple alternating subtraction and addition series; 1 is subtracted, then 2 is added, and so on

37. Answer: B The guitar, violin, and cello are stringed instruments; the flute is a wind instrument

38. Answer: B Coffee goes into a cup and soup goes into a bowl. Choices a and c are incorrect because they are other utensils. The answer is not choice d because the word food is too general.

39. Answer: C There are two alphabetical series here. The first series is with the first letters only: STUVW. The second series involves the remaining letters: CD, EF, GH, IJ, KL

40. Answer: 9 As you move diagonally down, numbers follow the sequence of Prime Numbers.

தமிழ் விடைகள் : 41.அ 42.ஆ 43.இ 44.ஈ 45.அ 46.ஆ 47.இ 48.ஈ 49.அ 50.ஆ

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EVERYDAY SCIENCE

1. Chirology is the study of:
a) Hands b) Feet c) Comets d) Skull
2. Logarithm tables were invented by:
a) J.J. Thompson b) John Napier c) Paul Ehrlich d) A.G. Bell
3. Out of the following, which is not emitted by radioactive substance?
a) Electrons b) Electromagnetic radiations c) Alpha particles d) Neutrons
4. Which type of high power batteries for e-vehicles and automobiles have been indigenously developed by ISRO?
a) Carbon b) Lithium ion c) Nickel Cadmium d) Lead acid
5. Energy is a
a) Point function b) property of the system c) extensive property d) all of the mentioned
6. Which of the following in biology is the energy currency of cells?
a) PDP b) DTP c) ATP d) ADP
7. What are the functions of thyroid gland in the body?
a) Controls metabolism b) Maintain internal homeostasis
c) Controls breathing and heart rate d) All of the above
8. Which of the plant products is used in leather industry?
a) Resin b) Latex c) Tannin d) Mucilage
9. Honey is sweeter than cane sugar or corn syrup. Which one of the following carbon sugars is responsible for this?
a) Dextrose b) Levulose c) Sucrose d) Fructose
10. How much of the volume of urine is produced in an adult human every 24 hours?
a) 1 litre b) 1.5 litres c) 3 litres d) 5 litres

GENERAL STUDIES

11. The headquarters of IRDA is located in
A. New Delhi B. Mumbai C. Chennai D. Hyderabad
12. Who gave the call for Evergreen Revolution?
A. H. M. Dalaya B. Verghese Kurien C. Tribhuvandas Patel D.M.S. Swaminathan
13. Which state power utility starts 'Pink Electricity Zone' recently?
A. Assam B. Bihar C. Madhya Pradesh D. Uttar Pradesh
14. This state government declares holiday for Women Staff on March 8, International Women's Day.
A. Maharashtra B. Telangana C. Kerala D. Arunachala Pradesh
15. Which state launches a new scheme to construct houses in rural areas 'Mukhya Mantri Awas Yojna Grameen' recently?
A. Uttar Pradesh B. Rajasthan C. Gujarat D. Maharashtra
16. Which among the following country tops in FDI in India?
A. United states B. UAE C. Mauritius D. Australia
17. National Research Centre for Banana is located at?
A. Madurai B. Trichy C. Tirupur D. Thiruvanthapuram
18. National Technology Day is celebrated on which date?
A. May 1 B. May 11 C. May 21 D. May 31
19. Which of the following was the first paper currency issued by RBI?
A. Rs 1-Note B. Rs 2-Note C. Rs 5 Note D. Rs 100 Note
20. What is the theme of the 2018 International Women's Day (IWD)?
A. Women in the Changing World of Work: Planet 50-50 by 2030
B. Equality for Women is Progress for All
C. Time is Now: Rural and urban activists transforming women's lives
D. Planet 50-50 by 2030: Step It Up for Gender Equality

CURRENT AFFAIRS

21. The Union Government has launched TB-free India Campaign from which city to eradicate TB from India by 2025?
[A] Lucknow [B] Varanasi [C] New Delhi [D] Gandhi Nagar
22. The first-ever Indo-French Knowledge Summit was held in which city?
[A] Varanasi [B] New Delhi [C] Chennai [D] Shimla
23. The Union Government has constituted the tribunal to solve Mahanadi Water dispute between Odisha & Chhattisgarh. Who will be the Chairman of the tribunal?
[A] AM Khanwilkar [B] Indermeet Kaur Kochhar [C] Ravi Ranjan [D] Kirtipal Singh
24. The Festival of Democracy will be celebrated in which city of Rajasthan?
[A] Kota [B] Udaipur [C] Jaisalmer [D] Jaipur
25. India's first national coastal policing academy has set up in which district of Gujarat?
[A] Ahmedabad [B] Gir Somnath [C] Devbhumi Dwarka [D] Junagadh
26. India has offered how much amount of Line of Credit (LoC) to Mauritius for defence procurement?
[A] \$100 million [B] \$500 million [C] \$300 million [D] \$200 million
27. The National Crime Records Bureau (NCRB) has celebrated its 33rd Inception Day on which date?
[A] March 11 [B] March 12 [C] March 10 [D] March 13
28. Which platform has been launched by the Government of India (GoI) as an association of all-India metro rail companies?
[A] E-METROS [B] I-METROS [C] M-METROS [D] R-METROS
29. Which bank has launched instant overdraft 'InstaOD' facility for Micro, Small and Medium Enterprises (MSME)?
[A] State Bank of India [B] HDFC Bank [C] ICICI Bank [D] Bank of Baroda
30. The Gangrel Dam is built across which river in Chhattisgarh?
[A] Mahanadi River [B] Ganga River [C] Yamuna River [D] Tapti River

QUANTITATIVE APTITUDE

31. Find the value of $\frac{854 \times 854 \times 854 - 276 \times 276 \times 276}{854 \times 854 + 854 \times 276 + 232 \times 232} =$
 a) 578 b) 628 c) 728 d) 626
32. Find the value of $\frac{4.2 \times 4.2 - 1.9 \times 1.9}{2.3 \times 6.1} =$
 a) 0.5 b) 0.8 c) 1 d) 1.9
33. If $x = 1 + \sqrt{2}$ and $y = 1 - \sqrt{2}$ find the value of $(x^2 + y^2)$
 a) 6 b) 7 c) 8 d) 5
34. Find the average of all prime numbers between 30 and 50
 a) 0 b) 2 c) 39.8 d) 20.5
35. Find the odd man out: 1, 4, 6, 9, 16, _
 a) 25 b) 36 c) 49 d) 64

TEST OF REASONING

36. AZ, GT, MN, ?, YB
 (a) KF (b) RX (c) SH (d) TS
37. Sponge is to porous as rubber is to
 (a) massive (b) elastic (c) solid (d) inflexible
38. Look at this series: 53, 53, 40, 40, 27, 27, ... What number should come next?
 (a) 12 (b) 27 (c) 53 (d) 14
39. Which word does NOT belong with the others?
 (a) ounce (b) inch (c) centimeter (d) yard
40. A and B are young ones of C. If C is the father of A but B is not the son of C. How are B and C related?
 (a) Niece and Uncle (b) Daughter and Father (c) Niece and Uncle (d) Daughter and Mother

தமிழ்

41. சீர்கள் ஒன்றுடன் ஒன்று பொருந்த அமைவது -----?
 அ. தளை ஆ. அசை இ. சீர் ஈ. அடி
42. இலக்கியச் சுவைகளில் மிகவும் நுட்பமானது?
 அ. நாடகச்சுவை ஆ. நகைச்சுவை இ. இசைச்சுவை ஈ. அறுசுவை
43. 'காலதர்' என்னும் சொல் எதனைக் குறிக்கும்?
 அ. கதவு ஆ. வீடு இ. ஜன்னல் ஈ. வாசல்
44. 'ஒரு கிராமத்து நதி' என்ற நூலுக்கு சாகித்ய அகாதமி பரிசு பெற்ற கவிஞர்---
 அ. நா.காமராசு ஆ. முத்துக்குமார் இ. பாரதியார் ஈ. சிற்பி பாலசுப்பிரமணியம்
45. வைரமுத்து பத்மபூசன் விருது பெற்ற ஆண்டு----
 அ. 2014 ஆ. 2013 இ. 2012 ஈ. 2011
46. தாலாட்டு கன்னடத்தில் ----- என அழைக்கப்பெறுகிறது.
 அ. தாராட்டு ஆ. ஜோகூல இ. ஊஞ்சோதி ஈ. ஓராட்டு
47. நரிவிருத்தம் என்ற நூலின் ஆசிரியர் யார்?
 அ. நக்கீரர் ஆ. சீத்தலைச்சாத்தனார் இ. திருத்தக்கத்தேவர் ஈ. கம்பர்
48. 'திருக்குறளின் விளக்கம்' என்று எந்த நூலைக் குறிப்பர்?
 அ. நான்மணிக்கடிகை ஆ. பழமொழி இ. ஏலாதி ஈ. நாலடியார்
49. அவிரோதியார் இயற்றிய நூல் -----
 அ. திருவெம்பாவை ஆ. திருப்பாவை இ. நல்ஞானம் ஈ. நற்காட்சி
50. கந்தர் கலி வெண்பா என்ற நூலின் ஆசிரியர் -----
 அ. அருணகிரி ஆ. குமரகுருபரர் இ. கல்லாடர் ஈ. சேனாவரையர்

ANSWERS (GK 11)

<u>EVERYDAY SCIENCE:</u>	1.A	2.B	3.D	4.B	5.D	6.C	7.D	8.C	9.B	10.B
<u>GENERAL STUDIES:</u>	11.A	12.D	13.C	14.B	15.A	16.C	17.B	18.B	19.C	20.C
<u>CURRENT AFFAIRS:</u>	21.C	22.B	23.A	24.D	25.C	26.A	27.A	28.B	29.C	30.A
<u>QUANTITATIVE APTITUDE:</u>	31.A	32.C	33.A	34.C	35.A					

31. Given expression

$$\frac{(a^3 - b^3)}{a^2 + ab + b^2} = (a - b) = 854 - 276 = 578$$

32. Given expression

$$\frac{(a^2 - b^2)}{(a + b)(a - b)} = \frac{a^2 - b^2}{a^2 - b^2} = 1$$

$$\begin{aligned} 33. \quad x^2 + y^2 &= (1 + \sqrt{2})^2 + (1 - \sqrt{2})^2 \\ &= (1 + \sqrt{4} + 2\sqrt{2}) + (1 + \sqrt{4} - 2\sqrt{2}) \\ &= 1 + 2 + 2\sqrt{2} + 1 + 2 - 2\sqrt{2} \\ &= 3 + 2\sqrt{2} + 3 - 2\sqrt{2} \\ &= 3 + 3 = 6 \end{aligned}$$

34. The prime numbers between 30 and 50 are 31, 37, 41, 43 and 47

$$\text{Required average} = \left(\frac{31 + 37 + 41 + 43 + 47}{5} \right) = \frac{199}{5} = 39.8$$

35. Ans $5^2 = 25$

TEST OF REASONING: 36.C 37.B 38.D 39.A 40.B

36.(c) First letter moves 6 steps forward. Second letter moves 6 steps backward.

37.(b) A sponge is a porous material. Rubber is an elastic material.

38.(d) In this series, each number is repeated, then 13 is subtracted to arrive at the next number.

39.(a) An ounce measures weight; the other choices measure length

40.(b) C has two children A and B, if A is his son, B must be his daughter.

தமிழ் விடைகள் : 41.அ 42.ஆ 43.இ 44.ஈ 45.அ 46.ஆ 47.இ 48.ஈ 49.அ 50.ஆ