## VIVEKANANDA COLLEGE, TIRUVEDAKAM WEST-625234 GENERAL KNOWLEDGE

## EVERYDAY SCIENCE

1. Production of chlorofluorocarbons (CFC) gas which is proposed to be banned in India, is used in which of the following domestic products?
a) Television
b) Refrigerator
c) Tube light
d) Cooking gas
2. Which of the following is NOT true about Indian space research?
(a) The first satellite launched in India was Aryabhatta
(b) Great scientist Dr. Vikram Sarabhai is known as the father of Indian space research
(c) ISRO was set up in 1962
(d) IRSO reports to Department of Space, India
3. What make the metals are good conductors of electricity?
a) Because they contain free electrons
b) Because the atoms are lightly packed
c) Because they have high melting point
d) All of the above
4. The process by which solid substance changes into liquid is called
a) Boiling
b) Diffusion
c) Melting
d) Condensation
5. Why Aluminium is used for making cooking utensils?
a) It is good conductor of heat
b) It is sonorous
c) It is malleable
d) None of the above
6. When a substance loses electrons, it is called
a) Corrosion
b) Rust
c) Oxidation
d) Osmosis
7. Which set of insects is useful to man?
a) Honey bee, silk moth, dragonfly
b) Honey bee, locust, Lac insect
c) Lac insect, silk moth, honey bee
d) Rice weevil, silk moth, honey bee
8. Plants that grow in saline soil are called
a) Halophytes
b) Hydrophytes
c) Mesophytes
d) Thallophytes
9. Iron is present in the human blood in the form of a
a) Free salt
b) Complex
c) Compound
d) Mixture
10. Which of the following branches of science is concerned with the classification of organisms?
a) Agronomy
b)Genealogy
c) Histology
d)Taxonomy

## GENERAL STUDIES

11. Sati was declared illegal and punishable by
A) Lord William Bentinck
B) Lord Ripon
C) Lord Canning
D) Lord Dalhousie
12. Who was the first to address Mahatma Gandhi as "Father of Nation"?
A) J.L. Nehru
B) B.G. Tilak
C) Rabindranath Tagore
D) Subhas Chandra Bose
13. Which was the largest site of Indus Civilization?
a) Mohenjo-Daro
B) Lothal
C) Chanhudaro
D) Dholavira
14. At which of the following harappan sites, an Inkpot has been discovered
[A] Harappa
[B] Lothal
[C] Kalibangan
[D] Chanhudaro
15. Which among the following is a qualitative tool of monetary policy?
[A] Bank Rate
[B] Credit Ceiling
[C] Credit rationing
[D] Cash Reserve Ratio
16. If the Reserve Bank of India wants to increase the Cash Reserves commercial Banks, which among the following would be the most probable step taken by it?
[A] Release Gold from its reserves
[B] Buy bonds in the open market
[C] Prohibit the transactions that involve bill of exchange
[D] Increase the tranche reserves with the IMF
17. In India, the Foreign Exchange Reserves are kept in the custody of which among the following?
[A] Ministry of Finance
[B] EXIM bank
[C] Reserve Bank of India
[D] Selected Public Sector Banks
18. Portion of deposits banks have to park with RBI is called $\qquad$ ?
A] Statutory Reserve Ratio
B] Capital Adequacy Ratio
C] Cash Reserve Ratio
D] CASA
19. Which of the following agricultural commodity of India gives largest in terms of export value?
[A] Tea
[B] Basmati Rice
[C] spices
[D] cotton
20. Which among the following bodies estimates the national income of India?
[A] Office of the Economic Advisor
[B] Ministry of Statistics
[C] Central Statistical Office
[D] Ministry of Finance

## CURRENT AFFAIRS

21. Govt. has launched "Paisa" portal which has been designed and developed by which bank?
a. SBI
b. Bank of Baroda
c. Allahabad Bank
d. Punjab National Bank
22. Which state has emerged as the top performer of the centre's ambitious health financing scheme Ayushman Bharat - Pradhan Mantri Jan Arogya Yojana?
a. Rajasthan
b. Andra pradesh
c. Odisha
d. Gujarat
23. 2018 G20 Summit will be held in which country?
a. China
b.Argentia
c. France
d.Germany
24. Cadava National Day will be celebrated on?
a. December 2
b. December 3
c. November 29
d. November 30
25. Which state has bagged the Best State Award in Cadaveri Organ donation for the $4^{\text {th }}$ time?
a. Tamil Nadu
b. Andra pradesh
c. Kerala
d. Gujarat
26. Which state govt. has released lexicons of 21 Tribal languages for multilingual education (MLE) purposes for elementary schools in traibal-dominated districts?
a. Tamil Nadu
b. Odisha
c. Kerala
d. Gujarat
27. 3-day long Logix India 2019 will be held at which place?
a. Mumbai
b.Lucknow
c. Delhi
d.Indore
28. One of a kind world-class autism township worth Rs. 500 crore, will be set up in which city?
a. Mumbai
b.Kolkata
c.Delhi
d.Indore
29. How many scientists have been selected for the prestigious Swarnajayanti Fellowship Award instituted by the Department of Science and Technology for the year 2017-2018?
a. 15
b. 20
c. 14
d. 22
30. Who has won the Global Goespatial Industry Ambassador Award?
a. Arun Kumar
b. Sanjay Kumar
c. Pawan Goyal
d. Amandeep Singh.

## QUANTITATIVE APTITUDE

31. What is the value of $\frac{3}{4}+\frac{1}{6}+\frac{5}{8}$
(a) $\frac{24}{37}$
(b) $\frac{8}{24}$
(c) $\frac{24}{8}$
(d) $\frac{37}{24}$
32. What is $60 \%$ of 80 ?
(a) 46
(b) 48
(c) 50
(d) 52
33. The price of an item that cost Rs. 80 was raised by $25 \%$. What is the new cost?
(a) 100
(b) 106
(c) 108
(d) 64
34. If $\frac{x}{y}=\frac{4}{3}$, then what is the value of $\frac{6 x+4 y}{6 x-5 y}$ ?
(a) 8
(b) 6
(c) 4
(d) 2
35. What is the value of $\sqrt{41-\sqrt{21+\sqrt{19-\sqrt{9}}}}$.
(a) 3
(b) 6
(c) 9
(d) 12

## TEST OF REASONING

36. If $42 \rightarrow 26,71 \rightarrow 78$ and $33 \rightarrow 16$, then $62 \rightarrow$
a) 68
b) 38
c) 39
d) 54
37. BZDX : FVHT :: JRLP:
a) NNPL
b) NNLO
c) NMLR
d) NNKL
38. The next term of the series $2,9,28,65, \ldots$, is
a) 121
b) 195
c) 126
d) 103
39. If ARUL is coded as 52 , then BINA will be coded as
a) 40
b) 42
c) 26
d) 30
40. 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) Gowtham

## தமிழ்

41. 'வனப்பு'என்னும் சொல்லின் பொருள் யாது?
அ. அழகு
ஆ. காடு
இ. மலை
ஈ. கடல்
42. ‘வெக்கை’என்றநாவலின் ஆசிரியர் யார்?
அ. இமையம்
ஆ. பூமணி
இ. உஞ்சைராசன்
ஈ. டேனியல்
43. 2011இல் சாகித்யஅகாடமிவிருதுபெற்றதமிழ் எழுத்தாளர் -------
அ. நாஞ்சில் நாடன் ஆ .புவியரசு
இ. சு.வெங்கடேசன்
ஈ. நீலபத்மநாபன்
$\begin{array}{lllll}\text { 44. பௌத்தசமயம் தமிழ்நாட்டில் குடியேறியஆண்டு ----- } & & \\ \text { அ. கி.பி. } 6 & \text { ஆ. கி.பி. } 3 & \text { இ. கி.மு. } 6 & \text { ஈ. கி.மு. } 3\end{array}$
44. 'கவிராசஸ'என்றுஅழைக்கப் பெற்றபுலவர் யார்?
அ. ஒட்டக்கூத்தர்
ஆ. கம்பர்
இ. கண்ணதாசன்
ஈ. வைரமுத்து
45. நாயக்கர்களின் ஆட்சிமதுரையில் நிலைபபற்றிருந்தஆண்டுகள் ------
அ. 4ஆண்டுகள் ஆ. 40ஆண்டுகள்
இ. 400ஆண்டுகள்
ஈ. 4000ஆண்டுகள்
46. 300000 தங்கநாணயத்திற்குஈடானமுத்துக்களைஅணிந்தஉரோமநாட்டு இளவரசி—
அ. உலோலா
ஆ. கிளியோபாட்ரா
இ. ஜான்சிராணி ஈ. மங்கையர்கரசி

48 .நாலடியார் எத்தனைஅதிகாரங்களைஉடையது?
அ. 133
ஆ. 40 இ. 35
ஈ. 3
49. நன்னூலில் உள்ள நூற்பாக்களின் எண்ணிக்கையாது?
அ. 55
ஆ. 407
இ. 462
ஈ. 202
50. ஐந்தாம் வேற்றுமை உருபுகள் ------
அ. ஐ
ஆ. ஆல்
இ. கு
ஈ. இல், இன்

ANSWERS: GK 1 (08.12.2018)
EVERYDAY SCIENCE:
GENERAL STUDIES:
CURRENT AFFAIRS:

| 1.B | 2.C | 3.A | 4.C | 5.A | 6.C | 7.C | 8.A | 9.C | 10.D |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 11.A | 12.D | 13.A | 14.D | 15.C | 16.B | 17.C | $18 . \mathrm{C}$ | 19.B | 20.C |
| 21.C | 22.D | 23.B | 24.A | 25.A | $26 . B$ | $27 . C$ | $28 . B$ | $29 . C$ | $30 . B$ |
| 31.D | 32.B | $33 . \mathrm{A}$ | 34.C | 35.B |  |  |  |  |  |

QUANTITATIVE APTITUDE:
31.D 32.B 33.A 34.C 35.B
31. Given that $\frac{3}{4}+\frac{1}{6}+\frac{5}{8}$.

4|4,6,8
$\mathrm{LCM}=2 \underline{\underline{1,6,2}}=4 \times 2 \times 3=24$.
1,3,1

LCM of $4,6 \& 8$ (denominators) is 24 .
So $\frac{3}{4}=\frac{3 X 6}{4 X 6}=\frac{18}{24} ; \quad \frac{1}{6}=\frac{1 X 4}{6 X 4}=\frac{4}{24} ; \quad \frac{5}{8}=\frac{5 X 3}{8 X 3}=\frac{15}{24}$.
Hence $\frac{3}{4}+\frac{1}{6}+\frac{5}{8}=\frac{18}{24}+\frac{4}{24}+\frac{15}{24}=\frac{18+4+15}{24}=\frac{37}{24}$.

## Answer - (d).

32. of means multiplication.

Therefore $60 \%$ of 80 means $\frac{60}{100} X 80$.
Hence $\frac{60 X 80}{100}=6 X 8=48$.

## Answer - (b)

33. The new raised percentage is $(100+25) \%=125 \%$.

So the new price $125 \%$ of 80 is $\frac{125 X 80}{100}=100$.
Answer - (a).
34. Given $\frac{x}{y}=\frac{4}{3}$, then $\frac{6 x+4 y}{6 x-5 y}=\frac{6\left(\frac{x}{y}\right)+4}{6\left(\frac{x}{y}\right)-5}=\frac{6\left(\frac{4}{3}\right)+4}{6\left(\frac{4}{3}\right)-5}=\frac{8+4}{8-5}=\frac{12}{3}=4$.

## Answer - (c).

35. Given that $\sqrt{41-\sqrt{21+\sqrt{19-\sqrt{9}}}} \quad=\sqrt{41-\sqrt{21+\sqrt{19-3}}}=\sqrt{41-\sqrt{21+\sqrt{16}}}$

$$
=\sqrt{41-\sqrt{21+4}}=\sqrt{41-\sqrt{25}}
$$

$$
\sqrt{41-5}=\sqrt{36}=6 .
$$

Answer - (b)
TEST OF REASONING: $\quad 36 . \mathrm{B}$ 37.A $38 . \mathrm{C} \quad$ 39.C $40 . \mathrm{A}$

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

## EVERYDAY SCIENCE

1. If force is expressed in newton and the distance in meter, then the work done is expressed in-
a) Joule
b) Kg wt
c) Kg wt m
d) Watt
2. Wet-bulb and dry-bulb thermo-meters are used to determine-
a) the minimum temperature at a place in any 24 -hour period
b) relative humidity
c) air pressure
d) the maximum temperature at a place in any 24 -hour period
3. Which of the following colours has got the maximum refractive index for glass?
a) Blue
b) Green
c) Red
d) Indigo
4. The element of an electric stove is made of-
a) copper
b) aluminium
c) magnesium
d) nicrome
5. The most abundant element in the earth's atmosphere is-
a) carbon dioxide
b) hydrogen
c) oxygen
d) nitrogen
6. All of the following are plant products except-
a) cork
b) hemp
c) silk
d) linen
7. Which of the following food articles contain only one of the five constituents of diet, viz., fasts, carbohydrates, proteins, mineral salts and vitamins?
a) Bread
b) Mongo
c) Milk
d) Sugar
8. The red blood cells are formed in the-
a) heart
b) liver
c) lymph nodes
d) bone marrow
9. For digestion of fat, bile is needed. This is secreted by the-
a) stomach
b) pituitary gland
c) pancreas
d) liver
10. Excessive secretion from the pituitary gland in children results in-
a) increased height
b) retarded growth c) weakening of bones
d) None of the above

## GENERAL STUDIES

11. Who is the newly appointed Governor of the Reserve Bank of India (RBI)?
a) Aravind panagariya
b) Shaktikanta Das c) Koushik Basu
d) Rajiv Mehrishi
12. Which Twitter handle has been launched by the Union Government to spread awareness about cyber crimes?
a) @Cyber18
b) @CyberFriend
c) @CyberVigyan
d) @CyberDost
13. Indo-China joint military exercise 'Hand-in-Hand' has started in which of the following locations?
a) Chengdu
b) Tianjin
c) Guangzhou
d) Hangzhou
14. Who has been selected for the Best Woman Parliamentarian (Rajya Sabha) for 2018?
a) Nirmala Sitharaman
b) Smriti Irani
c) Roopa Ganguly
d) Kanimozhi
15. Which of the following district Courts will become the first in India to accept e-payments?
a) Delhi
b) Pune
c) Kolkata
d) Chennai
16. On which date, the 2018 International Anti-Corruption Day is observed?
a) Dec 10
b) Dec 9
c) Dec 11
d) Dec 12
17. Which of the following has become the new district of Arunachal Pradesh?
a) Lepa Rada
b) Pakke-Kessang
c) Manigong
d) Shi Yomi
18. Which state government has recently launched a 24 -hour helpline ' 181 ' for women facing harassment?
a) Tamil Nadu
b) Andhra Pradesh
c) Odisha
d) Kerala
19. Which of the following states has become the India's first state to have four international airports? ( )
a) Tamil Nadu
b) Maharashtra
c) West Bengal
d) Kerala
20. Dr. Rajanish Giri has been awarded the DBT Innovative Young Biotechnologist Award (IYBA) 2018 for his proposed innovative idea on?
a) Ebola Virus
b) Chikungunya
c) HIV
d) Zika Virus

## CURRENT AFFAIRS

21. Asia Pacific Summit 2018 was held in which country from November 30 to December 3, 2018?
a) Myanmar
b) Nepal
c) India
d) Philippines
22. Bartolome Esteban Murillo was a famous painter of which country?
a) France
b) Germany
c) Italy
d) Spain
23. Nagaland (1979) is the first book to be ever written in Nagamese. The book was written by $\qquad$ $?(\quad)$
a) Navamlati Chakraborty
b) Kishore Jadav
c) Madhave Gokhale
d) Hari Prasad
24. The Maharashtra state Assembly has unanimously passed a bill proposing $\qquad$ per cent reservation for Marathas under "Social and Educationally backward" category? $\qquad$
a) $15 \%$
b) $20 \%$
c) $16 \%$
d) $33 \%$
25. National Cadet Corps (NCC) celebrated its $\qquad$ NCC Raising day on $25^{\text {th }}$ November 2018?
a) $69^{\text {th }}$
b) $70^{\text {th }}$
c) $71^{\text {st }}$
d) $72^{\text {nd }}$
26. Who has authored the book "Fables of Fractured Times"?
a) Manmohan Singh
b) Shashi Tharoor
c) Manish Tewari
d) Umakant Mishra

27．The creator of SpongeBob SquarePants cartoon passed away due to Motor Neuron Disease，what was his name？
a）Tomm Moore
b）Nick Park
c）Mark Burton
d）Stephen Hillenburg

28．IIT－Bombay graduates has launched India＇s first advanced personal robot for kids under which name？
a）Giko 2
b）Miko 2
c）Siko 1
d）Niko 0.5

29．According to Lancet report，from 2014－2017，the average length of heat waves in India ranged from
a） 1.2 days compared to the global average of $0.8-1.8$ days？
b） 3.4
c） 5.6
d） 5.7

30．Who has been appointed as chairperson of the Atomic Energy Regulatory Board（AERB）？
d）Nageshwar Rao Guntur
a）George Sudarshan
b）Manilal Bhaumikk c）Mannindra Agrawal QUANTITATIVE APTITUDE

31．A train moves at a constant speed of $120 \mathrm{~km} / \mathrm{hr}$ for 1 km and at $40 \mathrm{~km} / \mathrm{hr}$ for the next 1 km ．What is the average speed of the train．
a） 48 kmph
b） 50 kmph
c） 80 kmph
d） 60 kmph

32．A can do a piece of work in 20 days and $B$ can do it in 15 days and $c$ can finish it in 25 days，then how long will they take to complete the work？
a） $6(18 / 47)$ days
b） 12 days
c） $2(8 / 11)$ days
d） $47(6 / 18)$ days

33．Nishu and Archana can do a piece of work in 10 days and Nishu alone can do it in 12 days．In how many days can Archana do it alone？
a） 60 days
b） 30 days
c） 50 days
d） 45 days

34．If the number $517 * 324$ is completely divisible by 3 ，then the smallest whole number in the place of $*$ will be：
a） 0
b） 1
c） 2
d）None of these（ ）

35．A fruit seller had some apples．He sells $40 \%$ apples and still has 420 apples．Originally，he had：（ ）
a） 588 apples
b） 600 apples
c） 672 apples
d） 700 apples

## TEST OF REASONING

36．Find the next number in the sequence．．． $20,38,62,92,128 . .$.
a） 164
b） 184
c） 204
d） 170

37．JAK，KBL，LCM，MDN， $\qquad$ ．
a）OEP
b）NEO
c）MEN
d）PFQ

38．A girl introduced a boy as the son of the daughter of the father of her uncle．The boy is girl’s
a）Brother
b）Son
c）Uncle
d）Son－in－law

39．In a certain code，RIPPLE is written as 613382 and LIFE is written as 8192 ．How is PILLER written in that code？
a） 318826
b） 318286
c） 618826
d） 338816

40．Choose or find odd word
House，Cottage，School，Palace
a）House
b）Cottage
c）School
d）Palace
தமிழ்

41．மதுரைக் காஞ்சியின் ஆசிாியர் யார்？
அ）நக்கீரர்
ஆ）முடத்தாமக் கண்ணியார்
இ）மாங்குடி மருதனார்
ஈ）நப்பூதனார்

42．பத்துப்பாட்டில் மிகக் குறைந்த பாடல்களைக் கொண்ட நூல் எது？
அ）மதுரைக் காஞ்சி
ஆ）முல்லைப்பாட்டு
இ）பட்டினப்பாலை
ஈ）நெடுநல்வாடை

43．பலரது ஆய்விற்குட்பட்ட சங்க இலக்கியம் நூல் எது？
அ）குறுந்தொகை
ஆ）கலித்தொகை
இ）அகநானூறு
ஈ）புறநானூறு

44．ஐந்து கருத்துக்களால் உள்ளத்தில் உள்ள நோயை போக்க வல்ல நூல்？
அ）திாிகடுகம்
ஆ）ஏலாதி
இ）திருக்குறள்
ஈ）சிறுபஞ்சமூலம்

45．குண்டலகேசி காப்பியத்தில் குண்டலகேசியின் உண்மையான பெயர் எது？
அ）பத்தரை
ஆ）கற்புக்கரசி
இ）விசயை
ஈ）சுதமதி

46．காரைக்கால் அம்மையாாின் இயற்பெயர் எது？
அ）புனிதவதி
ஆ）ஆண்டாள்
இ）நாச்சியார்
ஈ）திருமங்கையாழ்வார்

47．எழில் முதல்வன் எழுதி சாகித்யா அகாதமி விருது பெற்று நூல் எது？
அ）ஆலோபனை
ஆ）சேரமான் காதலி
இ）புதிய உரைநடை

ஈ）
48．கால் மாத்திரை அளவு ஒலிக்கும் எழுத்து எது？
அ）உயிர் எழுத்து
ஆ）ஆய்த எழுத்து
இ）உயிர்மெய்
ஈ）மெய்

49．இலக்கணத்தில் விடைகளின் எண்ணிக்கை யாது？
அ） 11
ஆ） 10
இ） 9

ஈ） 8
50．அழகுக் கலைகளின் எண்ணிக்கை யாது？
அ） 4
ஆ） 5
இ） 6
ஈ） 7
（15－12－2018）
EVERYDAY SCIENCE ：－
$\begin{array}{ll}\text { 1．A } & \text { 2．B } \\ \text { 6．} \mathrm{C} & \text { 7．} \mathrm{D}\end{array}$
GENERAL STUDIES ：－
11．B 12．D

16．B 17．D
CURRENT AFFAIRS：－
21．B 22．D
26．C 27．D
QUANTITATIVE APTITUDE ：－

## 31．D32．A <br> 33．A

31．ANSWER d） 60 kmph
Distance $=1 \mathrm{~km}$ ，Speed $x=120 \mathrm{~km} / \mathrm{hr}$ Speed $\mathrm{y}=40 \mathrm{~km} / \mathrm{hr}$
Average Speed $=\left(2{ }^{*} x^{*} y\right) /(x+y)$［ie Same Distance］
Average Speed $=$ Total Distance $/$ Total Time［ie Different Distance］
Here the distance is same．So，Average Speed $=(2 * x * y) /(x+y)=(2 * 120 * 40) / 160$
$=60 \mathrm{~km} / \mathrm{hr}$ Answer $=>60 \mathrm{~km} / \mathrm{hr}$
32．ANSWER a） $6(18 / 47)$ days
A＇s 1 day work＝ $1 / 20 ;$ B＇s 1 day work＝ $1 / 15$ ；C＇s 1 day work＝ $1 / 25$
$(A+B+C)$＇s 1 day work $=(1 / A)+(1 / B)+(1 / C) ;(A+B+C)$＇s 1 day work $=(1 / 20)+(1 / 15)+(1 / 25)$
LCM of $20,15,25=300=(15+20+12) / 300=47 / 300$
$\mathrm{A}, \mathrm{B}, \mathrm{C}$ together to complete the work in，
＝ $300 / 47=6(18 / 47)$ days；Answer＝＞ $6(18 / 47)$ days
33．ANSWER a） 60 days
（Nishu＋Archana）＇s 1 day work
$(1 / A)+(1 / B)=(1 / 10) ;$ Nishu＇s 1 day work，$(1 / A)=(1 / 12)$ ；
Archana＇s 1 day work，$(1 / B)=? ; \quad(1 / B)=(1 / 10)-(1 / 12) ;$ LCM of $10,12=120$ ，
$=(12-10) / 120=2 / 120=60$ days Archana alone can finish the work in＝＞ 60 days
34．ANSWER：c） 2
If the sum of the digits of a number is divisible by 3 ．Then the number is divisible by 3 ．
Here， $517^{*} 324$ is divisible by 3 ，So， $5+1+7+3+2+4=22$
The smallest whole number in the place of＊is $=2.22+2=24$ divisible by 3 ．Answer $=>2$
35．ANSWER d）
Explanation：Suppose originally he had $x$ apples．
Then，$(100-40) \%$ of $x=420$ ．

$$
\begin{aligned}
& \Rightarrow \frac{60}{100} \times x=420 \\
& \Rightarrow x=\left(\frac{420 \times 100}{60}\right)=700
\end{aligned}
$$

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

36．Answer：Option D
Explanation：Logic is：The difference is 18，24，30，36， 42.
Next term should be $128+42=170$
37．Answer：Option B
Explanation：
This is an alternating series in alphabetical order．
The middle letters follow the order ABCDE．
The first and third letters are alphabetical beginning with J．
The third letter is repeated as a first letter in each subsequent three－letter segment．
38．Answer：A．Brother
Justification：Daughter of uncle＇s father－－Uncle＇s sister－－Mother；
Mother＇s son－－Brother．
39．Answer：A． 318826
Justification：
The alphabets are coded as shown ：

| R I | P | L | E | F |
| :--- | :--- | :--- | :--- | :--- |
| 61 | 3 | 8 | 2 | 9 |

So，in PILLER，
$P$ is coded as 3 ，$I$ as $1, L$ as $8, E$ as 2 and $R$ as 6 ．
Thus，the code for PILLER is 318826.
40．Answer：C．School
Justification：All except School are dwelling places．

## TAMIL：－

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

果电国

GENERAL KNOWLEDGE
22-12-2018

## EVERYDAY SCIENCE

1. Any molecule which acts directly on an enzyme to lower its catalytic rate is called
a) Regulator
b) Repressor
c) Inhibitor
d) Moderator
2. All of the following organs in the human body are located both on the right and the left sides, except
a) Lungs
b) Kidneys
c) Eyes
d) Spleen
3. Azadiracta indica is the botanical name of
a) Rice
b) Neem
c) Sandal
d) Turmeric
4. Fathom is the unit of measurement of
a) Depth of water
b) Flow of water
c) Volume of water
d) Density of water
5. In poorly ventilated buildings which one of the following inert gases can be accumulated?
a) Helium
b) Neon
c) Argon
d) Radon
6. The Potassium graphite and Calcium Graphite can be mostly used as which among the following?
a) Moderators
b) Semiconductors
c) Superconductors
d) Lubricants
7. Which among the following substances is being used most commonly for producing synthetic jet Fuel?
a) Coal
b) Natural Gas
c) Plastic Waste
d) Biomass
8. Among the biotic components of the ecosystem, the producer system is?
a) Sea
b) Rivers
c) Green Plants
d) Animals
9. Which among the following is used in preparing windows for X-Ray Tubes?
a) Barium
b) Beryllium
c) Magnesium
d) Calcium
10. Buckeyballs are basically the allotropes of $\qquad$ ?
a) Carbon
b) Sulfur
c) Phosphorus
d) Calcium

## GENERAL STUDIES

11. Which state has been selected for 2018 Krishi Karman award under rice category?
a) Rajasthan
b) Jharkhand
c)Madhya Pradesh
d) Punjab
12. Which neighboring country of India has banned all Indian currency notes above Rs.100?
a) Nepal
b) Bhutan
c) Bangladesh
d) Sri Lanka
13. One City - One Operator scheme" which was recently in news is related to which of the following?
a) Traffic
b) Sewage
c) Roads
d) Electricity
14. The Central Government contribution in National Pension Scheme (NPS) has raised to how much percentage from the existing $10 \%$ ?
a) $14 \%$
b) $15 \%$
c) $16 \%$
d) $13 \%$
15. Which of the following district courts will become the first in India to accept e-payments?
a) Delhi
b) Pune
c) Kolkata
d) Chennai
16. Which state tourism of India has hosted the first-ever Adventure Next 18 in Asia?
a) Rajasthan
b) Mizoram
c) Madhya Pradesh
d) Telangana
17. On which date, the 2018 International Anti-Corruption Day is observed?
a) December 10
b) December 9
c) December 11
d) December 12
18. Which of the following has become the new district of Arunachal Pradesh?
a) Lepa Rada
b) Pakke-Kessang
c) Manigong
d) Shi Yomi
19. Which state government has recently launched a 24 -hour helpline ' 181 ' for women facing harassment?
a) Tamil Nadu
b) Andhrapradesh
c) Odisha
d) Kerala
20. Who is the newly appointed Governor of the Reserve Bank of India (RBI)?
a) Arvind Panagariya
b) Shaktikanta Das
c) Kaushik Basu
d) Rajiv Mehrishi

## CURRENT AFFAIRS

21. Name the first Indian who won "Mister Supranational" title in Poland.
a) Sahil Salathia
b) Nitin Chauhaan
c) Sidharth Malhotra
d) Prathamesh Maulingkar
22. Who was appointed as the new governor of RBI?
a) Rajiv Mehrishi
b) Pramod Kumar Misra
c) Shakti kanta Das
d) Nripendra Misra
23. Scientists from which country developed a "rewritable" paper?
a) Germany
b) India
c) China
d) U.S.A.
24. Who became the $18^{\text {th }}$ Chief Minister of Madhya Pradesh?
a) Uma Bharti
b) Babulal Gaur
c) Shivraj Singh Chouhan
d) Kamal Nath
25. $14^{\text {th }}$ December is observed as a $\qquad$ -
a) National energy conservation day
b) National Girl Child Day
c) National Productivity Day
d) National Technology Day
26. On which date Ashok Gehlot became the Chief Minister of Rajasthan?
a) On $17^{\text {th }}$ Dec 2018
b) on $18^{\text {th }}$ Dec 2018
c) on $19^{\text {th }}$ Dec 2018
d) on $20^{\text {th }}$ Dec 2018
27. Where was the $19^{\text {th }}$ All India Police (AIPDM) Shooting Competition 2018 held?
a) Manesar, Haryana
b) Mohali, Punjab c)
c) Manali, Himachal Pradesh
d) Mussoorie, Uttarakhand
28. Who won the Lifetime Achievement Award at the $23^{\text {rd }}$ International Film Festival of Kerala?
a) Dariush Mehrjui
b) Majid Majidi
c) Malavika Mohanan
d) Asghar Farhadi
29. Which country bans the Indian currency notes above Rs 100 ?
a) Bangladesh
b) Nepal
c) Thailand
d) Afghanistan
30. On which date Sunil Arora became the Chief Election Commissioner of India?
a) On $2^{\text {nd }}$ Dec 2018
b) $10^{\text {th }} \operatorname{Dec} 2018$
c) $15^{\text {th }} \mathrm{Dec} 2018$
d) $20^{\text {th }}$ Dec 2018

## QUANTITATIVE APTITUDE

31. Find the odd man out. 331, 482, 551, 263, 383, 362, 284
a) 263
b) 383
c) 331
d) 551
32. Find out the wrong number in the given sequence of numbers. $56,72,90,110,132,150$
a) 72
b) 110
c) 132
d) 150
33. Insert the missing number. $5,10,13,26,29,58,61,(\ldots$.
a) 122
b) 64
c) 125
d) 128
34. Find out the wrong number in the series. 190, 166, 145, 128, 112, 100, 91
a) 100
b) 166
c) 145
c) 128
35. The sum of first five prime numbers is
a) 11
b) 18
c) 26
d) 28
36. AZ, GT, MN, ?, YB
a) KF
b) $R X$
c) SH
d) TS
37. Cricket: Pitch ::
a) Ship: Dock
b) Boat: Harbour
c) Boxing : Ring
d) Wrestling:Track
38. Jaundice : Liver
a) Rash : Skin
b) Dialysis: Kidney
c) Valentine : Heart
d) Imagination : Brain
39. Cube is related to Square in the same way as Square is related to
a) Plane
b) Triangle
c) Line
d) Point
40. Find the odd one out
a) Mango
b) Papaya
c) Apple
d) Orange

## தமிழ்

41. பொருந்தாஒன்றைத் தேர்க. கண்ணதாசன் பாடல்கள்.....
அ. முத்தானமுத்தல்லவோமிதந்துவந்தமுத்தல்லவோ
ஆ. சின்னப்பயலேசின்னப்பயலேேேதிகேளடா
இ. ஆடி அடங்கும் வாழ்க்கையடா
ஈ. அதோஅந்தபறவைபோலவாழவேண்டும்
42. "முந்நீர் வழக்கம் மகடூஉவோடில்லை" என்று கூறியவர்?
அ. தொல்காப்பியர் ஆ. பவணந்திமுனிவர் இ. தண்டியடிகள் F. புலவர்குழந்தை
43. புகைப்பழக்கத்தைக் கதைக்கருவாகக் கொண்ட ‘மமல்லமமல்ல மற’ என்றசிறுகதையின் ஆசிரியர் யார்?
அ. இலட்சுமி
ஆ. சுஐாதா
இ. சுபा
ஈ. தாமரை
44. நபிகள் நாயகத்தின் திருவாழ்வுமுழுமையும் பாடிமுடித்தவர் யார்?
அ. பனூ அகமதுமரைக்காயர் ஆ. சீதக்காதி இ. உமறுபுலவர் ஈ. செய்குஅப்துல் காதிர் மரைக்காயர்
45. "மரபுக்கவிதையின் வேர் பார்த்தவர்,புதுக்கவிதையின் மலர் பார்த்தவர்"என்றுபாராட்டப்படுபவர்?
அ. முடியரசன்
ஆ. வாணிதாசன்
இ. சுரதा
ஈ. அப்துல்ரகுமான்
46. புறநானூற்றுப் பாடலின்
அ. 4முதல் 40
ஆ. 13முதல்31
இ. 9முதல்12
ஈ. 32 முதல் 140
47. ‘பபருங்கதை’என்ற நூல் எத்தனைவரிகளால் யாக்கப்பபற்றுள்ளது?
அ. 15000
ஆ. 15230
இ. 16000
ศ. 16230
48. ‘மேருமந்திரபுராணம்’என்ற நூலின் ஆசிரியர் யார்?
அ. வாமனாச்சாரியார் ஆ. விம்பிசாரன் இ. கோச்செங்கணான் ஈ. சேக்கிழார்
49. ‘சங்கீதகலாநதி'என்றவிருதிளைப் பெற்றஅறிஞர் ----
அ. தண்டபாணி
ஆ. விபுலாந்தர்
இ. பாபநாசம் சிவன்
ஈ. சுந்தரேசனார்
50. 2010 ஆம் ஆண்டுஉலகத் தமிழ் செம்மொழிமாநாடுநடைபெற்ற இடம் எது?
அ. சிங்கப்பர்
ஆ. மலேசியா
இ. கோயமுத்தூர்
ஈ. சென்னை

## EVERYDAY SCIENCE:

| 1.C | 2.D | 3.B | 4.A | 5.D | 6.C | $7 . A$ | 8.C | 9.B | 10.A |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GENERAL STUDIES : |  |  |  |  |  |  |  |  |  |
| 11.B | 12.A | 13.B | 14.A | 15.B | 16.C | 17.B | 18.D | 19.A | 20.B |
| CURRENT AFFAIRS : |  |  |  |  |  |  |  |  |  |
| $21 . \mathrm{D}$ | 22 C | B | 4. | 5 | 26 | 27 |  |  |  |

21. Goa's Prathamesh Maulingkar has created history by becoming the first Asian/Indian to win Mister Supranational title in a competition held at Krynica-Zdroj, Poland. The 27 -year-old defeated 37 contestants from all over the world in the final round to win the coveted title. At the same pageant, Mister Supranational Poland was adjudged first runnerup, Mister Supranational Brazil was adjudged second runner-up and Mister Supranational Thailand was announced as the third runner-up.
22. The government has appointed Shaktikanta Das as the new RBI governor, a day after Urjit Patel resigned as RBI Governor. He is the 25th Governor of the Reserve Bank of India. A former economic affairs secretary from 2015 to 2017, Das worked closely with the central bank. He is currently a member of the Finance Commission of India, and the government's representative at the Group of 20 summits.
23. Scientists from the Fujian Normal University in China developed a "rewritable" paper that can be drawn or printed on over and over again by changing the temperature. The new material consisted of three layers in a sandwich-like structure where the text could be changed or wiped clean over 100 times by changing the temperature. According to a study published in the journal ACS Applied Material \& Interfaces, the messages can last more than half a year, compared to other re-writable papers. It can be used in practical applications such as long-lasting information recording and reading, rewritable label, reprintable display.
24. Congress party has chosen MP statue unit president Kamal Nath as the chief minister of Madhya Pradesh. He will replace outgoing Chief Minister Shivraj Singh Chouhan. A one-line resolution has been passed at the Congress Legislature Party (CLP) meeting in Bhopal to choose the Madhya Pradesh chief minister. Congress party high command will now take the final decision.
25. National energy conservation day is celebrated every year by the people all over India on 14th of December. The Energy Conservation Act in India was executed by the Bureau of Energy Efficiency (BEE) in the year 2001. The Bureau of Energy Efficiency is a constitutional body which comes under Government of India and helps in the development of policies and strategies in order to reduce the energy use.
26. The Congress party has picked old guard Ashok Gehlot over Sachin Pilot as Chief Minister of Rajasthan. Pilot will be the deputy CM of Rajasthan and will also continue as the state Congress chief. India's Grand Old Party won 99 seats of the 199 in the Rajasthan Assembly, just one short of the halfway mark to form the government.
27. Minister of State for Home Kiren Rijiju inaugurated the 19th All India Police (AIPDM) Shooting Competition-2018 at Manesar, Gurugram in Haryana, on 6th December 2018. The competition was held till 11th December 2018. More than 750 participants of 31 teams of State Police Forces and Central Armed Police Forces took part in the event. Total of 13 matches and 41 medals and 13 Trophies were awarded to the winners.
28. The Chief Minister of Kerala Pinarayi Vijayan inaugurated the closing ceremony of the 23rd International Film Festival of Kerala (IFFK) at Nisagandhi Auditorium in Thiruvananthapuram, Kerala. Around 160 films from around the world were screened at the week-long festival that commenced on December 7, 2018. The winners of the IFFK 2018 awards are Lifetime Achievement Award: Filmmaker Majid Majidi (Iran). Suvarna Chakoram for Best Film: The Dark Room. Rajata Chakoram for Best Director: Lijo Jose Pellissery for Ee.Maa.Yove.
29. The Nepal government banned Indian currency above Rs 100. New Indian note of Rs 2,000, Rs 500 and Rs 200 denominations were banned as the Nepal government has not yet legalised them in the market. The announcement was made by Nepal's Minister for Information and Communications Gokul Prasad Baskota. The move can affect the Indian tourist and Nepali people working in India, who carry the currency in Nepal for transaction.
30. Sunil Arora (born 13 April 1956) is the current and 23rd Chief Election Commissioner of India. He is a retired 1980 batch Indian Administrative Service (IAS) officer of Rajasthan cadre. He also served as a secretary to the Government of India in two ministries. Arora's father is a retired accounts officer of the Indian Railways, whereas his mother served in DAV College, Hoshiarpur. Of his two brothers, one is also an IAS officer, whereas, the other is a diplomat from the Indian Foreign Service. Arora has graduate (BA Honours) and postgraduate (MA) degrees in English from Panjab University in the Union Territory of Chandigarh. Arora assumed office as one of the two Election Commissioners of India on 31 August 2017, Arora assumed the office of Election Commissioner on 1 September 2017. On 26 November 2018, it was announced that Arora was would become the Chief Election Commissioner in December 2018, succeeding Om Prakash Rawat.
QUANTITATIVE APTITUDE:
31. B
32.D
33.A
34.D
35.D
32. Ans : B In each number except 383, the product of first and third digits is the middle one.
33. Ans: $D$ The numbers are $7 \times 8,8 \times 9,9 \times 10,10 \times 11,11 \times 12,12 \times 13$. So, 150 is wrong.
34. Ans: A Numbers are alternatively multiplied by 2 and increased by 3 . So, the missing number=61 $\times 2=122$.
35. Ans: D Go on subtracting $24,21,18,15,12,9$ from the numbers to get the next number. 190-24 = 166, $\quad 166-21=145, \quad 145-18=127$ [Here, 128 is placed instead of 127] $127-15=112, \quad 112-12=100 \ldots$ and so on. Therefore, 128 are wrong.
36. Ans: D

A prime number (or a prime) is a natural number that has exactly two distinct natural number divisors: 1 and itself. Required sum $=(2+3+5+7+11)=28$. Note: 1 is not a prime number.

## TEST OF REASONING:

36.C
37.C
38.A
39.C
40.A
36. c) SH; First letter moves 6 steps forward. Second letter moves 6 steps backward.
37. c) Boxing : Ring; The game of cricket is played on a pitch similarly, the game of boxing is performed in a ring.
38. a) rash : skin; Jaundice is an indication of a liver problem; rash is an indication of a skin problem.
39. c) Line; Cube comprises Square on all of its surfaces. In the same way square comprises Line on all of its sides.
40. a) Mango; All except Mango have more than one seed.


## EVERYDAY SCIENCE

1. The rate of cooling of a body is proportional to
(a) Difference between initial to final temperature
(b) final temperature
(c) Mean excess of temperature
(d) initial temperature
2. The rate of diffusion is large in
(a) Gas
(b) Solid
(c) Liquid
(d) Metal
3. Bonding present between the carbon atoms in graphite is
(a) Metallic
(b) Ionic
(c) Covalent
(d) Vanderwaal's forces
4. The chemical name of 'Vinegar' which is used as preservative is
(a) Formic acid
(b) Acrylic acid
(c) Acetic acid
(d) Maleic acid
5. Litmus paper's is prepared from
(a) Algae
(b) Fungi
(c) Lichen
(d) Bryophytes
6. The chief pollinators of our agricultural and horticultural crops are
(a) Moths
(b) Beetles
(c) Butterflies
(d) Honeybees
7. Which of the following element is absorbed by plants from soil directly?
(a) Carbon
(b) Nitrogen
(c) Boron
(d) Hydrogen
8. Birds migration optimizes the conditions for
(a) Nesting
(b) Shelter
(c) Egg laying
(d) Breeding and Feeding
9. The natural resource which is renewable and exhaustible is
(a) Minerals
(b) Coal
(c) Petroleum
(d) Forest
10. Calling female with sex attractant is peculiar in
(a) Silk moth
(b) Butterflies
c) Honey bees (d) Ants

GENERAL STUDIES
11. What is the name of India's first nuclear reactor?
A.Cirius
B. Apsara
C.Dhruva
D. Kamini
12. Mahatma Gandhi had launched his first Satyagraha in India from which among the following places?
A. Kheda
B. Bardoli
C. Champaran
D. Sabarmat
13. In India the term Black Revolution is associated with:
$\begin{array}{ll}\text { A. Self-dependence in the production of coal } & \text { B. Nurturing the Black Soil }\end{array}$
C. Self-dependence in the production of petroleum crude oil
D. Self-dependence in the production of black corps
14. Who was appointed as chief economist of International Monetary fund (IMF), on 1st October 2018?
A. Ritu Das
B. Manish Bansal
C. Gita Gopinath
D. PawanGoel
15. Who has been named the CEO of Reliance Health Insurance that has received approval from IRDAI(Insurance Regulatory and Development Authority of India) to begin operations from December 2018?
A. Manik Jain
B. Ravi Viswanath
C. Alexander Smith
D. Rahul Singh
16. Which state has become the first state in India to have $100 \%$ penetration of LPG in public sector Oil companies?
A. Maharashtra
B. Andhra Pradesh
C. Tamil Nadu
D. Kerala
17. Where will India's first railway station inside tunnel named Keylong station be set up?
A. Nagaland
B. Meghalaya
C. Himachal Pradesh
D. Arunachal Pradesh
18. Who among the following has written the book "Cricket My Style"?
A. Sunil Gavaskar
B. Anil Kumble
C. KapilDev
D. sachin
19. Which country will host the Women's Boxing World Championships 2018?
A. Japan
B. India
C. Belgium
D. Colombia
20. The journalist who refused to accept 'Padma Bhushan' was?
A. Shekaran Nair
B. Khushwant Singh
C. RatanThiyam
D. ArunShourie

## CURRENT AFFAIRS

21. Who was the young innovative biotechnologist in the year of 2018 selected by the Department of Biotechnology (DBT), Ministry of Science and Technology?
a) Giri
b) Rajanish Giri
c) Rajasekaran Reddy
d) All of the above
22. Which seed observe and deserve the this year 2018 in Food and Agriculture organization?
a) Finger millets
b) Paddy
c) Soya
d) Cucumber
23. Which medicine, recently health ministry has banned drugs?
a) Paracetamol
b) Practolol
c) Phenacetin
d) All of the above
24. Who is the twenty-fifth governor of the Reserve Bank of India from 12 December 2018?
a) D. Subbarao
b) Shaktikanta Das
c) Raghuram Rajan
d) Urjit Patel
25. What is the meaning of International Volunteers Day - 2018 (IVD) sharing the $\qquad$ $?$
a) Natural disasters, economic stresses and political shocks
b) Peaces
c) To integrate volunteerism
d) All of the above
26. Which company right now run by the biogas bus in 2018?
a) Tata Motors
b) Ashok Layland
c) Volvo
d) All are right
27. Eucalyptus tree used in $\qquad$ industry
a) Paper making
b) Resins
c) Wood
d) Medicine preparation
28. 181 helpline used for $\qquad$
c) Transgender
d) For all
29. Which country allowed the floating atomic power plant in the sea?
a) Russia
b) America
c) Japan
d) Germany
30. Which country fully restricted the abortion of young foetus ?
a) UK
b) US
c) Ireland
d) All of the above

## QUANTITATIVE APTITUDE

31．The next term will be
2，5，10，17，26，37，
a） 40
b） 50
c） 57
d） 53

32．An error $2 \%$ in excess is made while measuring the side of a square．What is the percentage of error in the calculated area of the square？
A． $4.04 \%$
B． $2.02 \%$
C． $4 \%$
D． $2 \%$

33．A towel，when bleached，lost $20 \%$ of its length and $10 \%$ of its breadth．What is the percentage decrease in area？
A．30\％
B． $28 \%$
C． $32 \%$
D． $26 \%$

34．Today is Monday．After 61 days，it will be
A．Thursday
B．Sunday
C．Monday
D．Saturday

35．Today is Thursday．The day after 59 days will be？
A．Monday
B．Tuesday
C．Saturday
D．Sunday

## TEST OF REASONING

36．T74AGHK\＃5 QR \％ 23 DF＊LM6BE8＠I\＄PV9－How many such consonants are there in the above arrangement each of which immediately preceded by a numerical？
A）One
B）Two
C）Three
D）None

37．Arrange the given words in a meaningful sequence： 1 Sea 2．Rivulet 3．Ocean 4．River 5．Glacier
A．5，4，3，2，1
B．5，4，2，3，1
C． $5,2,4,1,3$
D．5，2，1，3，4

38．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）
C） 3

（3）

（4）
D） 4
A） 1
B） 2

39．Choose the alternative which is closely resembles the water－image of the given combination．

```
ab45CD67
(1) ap&2CDEs (2) sp&eCDes
(3) spt?CD9s (4) spt?CDes
```

A） 2
B） 4
C） 1
D） 3

40．Choose the alternative which is closely resembles the water－image of the given combination．

| NUCLEAR |  |
| :---: | :---: |
| （1）Ђ४EГCUИ | （2）ИกССาЕ $\forall$ b |
| （3）ИUC「ヨヲb | （4）ИПСГ EヲB |

A） 1
B） 2
C） 3
D） 4

## தமிழ்

41．வனப்புகள் மொத்தம் எத்தனை வகைப்படும்？
அ）நான்கு
ஆ）ஐந்து
இ）ஆறு
ஈ）எட்டு

42．இராம－ராவணப் போர் நடைபெற்ற நாளின் எண்ணிக்கை？
அ） 18 மாதம்
ஆ） 18 வருடம்
இ） 18 நாட்கள்
ஈ） 18 நாழிகை

43．பிரம்மாவின் வாகனம் எது？
அ）கருடன்
ஆ）மயில்
இ）புலி
ஈ）அன்னம்

44．உரைத் தென்றல் என அழைக்கப்படுபவா் யார்？
அ）இளம்பூரணர் ஆ）சேனாவரையர்
இ）அடியார்க்கு நல்லார்
ஈ）பேராசிாியா்
45．நான்கறிவு உடைய உயிர்கள் எது？
அ）நெய்，புல்
ஆ）சிதல்，எறும்பு
இ）மா，மாக்கள்
ஈ）நண்டு，தும்பி

46．நாயக்கர்களின் ஆட்சிக் காலத்தில் தோன்றிய இலக்கியங்கள் எவை？
47．1980－ல் உலகத் தமிழ் மாநாடு நடைபெற்ற இடம் எது？
அ）மதுரை
ஆ）தஞ்சாவூர்
இ）கோலாலம்பூர்

ஈ）எதுவுமில்லை

48．இரவலா்க்கு குதிரைகள் நல்கிய வள்ளல் யார்？
அ）பாாி
ஆ）பேகன்

இ）அதியமான்
ஈ）மொரீசியஸ்

49．அடைமொழியால் அழைக்கப்படாத நூல் எது？
அ）குறுந்தொகை
ஆ）பதிற்றுப்பத்து
இ）ஐங்குநுறூறு
ஈ）மதுரைக்காஞ்சி

ஈ）காளி

50．ஏலாதி நூலின் ஆசிாியா் யார்？
அ）கணிமேதாவியர்
ஆ）விளம்பி நாகனார்
இ）கபிலர்
ஈ）பூதஞ்சேந்தனார்


## EVERYDAY SCIENCE

1. The chemial name of Uria is
(A) Carbamide
(B) Chloroetane
(C) Aneurin
(D) None of these
2. Brass gets discoloured in air due to the presence of which gas in air
(A) Carbon dioxide
(B) Hydrogen Sulphide
(C) Oxygen
(D) Nitrogen
3. The property of a substance to absorb moisture from the air on exposure is called
(A) Desiccation
(B) Efflorescence
(C) Deliquescene
(D) Osmosis
4. The fastest-running terrestrial animal is
(A) lion
(B) man
(C) jaguar
(D) cheetah
5. The fastest acting enzyme in the biological kingdom is
(A) amylase
(B) lipase
(C) carboxypeptidase
(D) carbonic anhydrase
6. The Panda belongs to the same family as that of
(A) Cat
(B) Bear
(C) Rabbit
(D) Dog
7. Apparatus invented by Archimedes is:
(A) Pulley
(B) Microscope
(C) Thermemoter
(D) Barometer
8. Biodegradable wastes can usually be converted into useful substances with the help of
(A) Bacteria
(B) Viruses
(C) Nuclear proteins
(D) Radioactive substances
9. Bio-diesel is mostly produced by:
(A) Liliaceae
(B) Malvaceae
(C) Myrtaceae
(D) Euphorbiaceae
10. The working principle of a washing machine is
(A) reverse osmosis
(B) diffusion
(C) centrifugation
(D) dialysis

## GENERAL STUDIES

11. Under which scheme does the Cabinet approve to set up 4 AIIMS?
A. Pradhan Mantri Mudra Yojana
B. Pradhan MantriSwasthyaSuraksha Yojana
C. Pradhan MantriVayaVandana Yojana
D. Pradhan MantriSurakshaBima Yojana
12. IWF President Named as Chef de Mission for ---------
A. Tokyo Olympics
B.Athens Olympics
C. Los Angeles Olympics
D.London Olympics
13. Who is the author of the book "We are Displaced"?
A. Kamila Shamsie
B.Malala Yousafzai
C.Mohsin Hamid
D.Umera Ahmad
14. Indian Railways has planned to replace conventional coaches with modern LHB design coaches. What does LHB stand for?
A. Leder Handle Busch B. Linke Hofmann Busch C.Linked Handle Busch D. Leder Handled Berth
15. International conference on bears starts in $\qquad$ _.
A. Pune
B. Jamshedpur
C. Agra
D. Manipur
16. Who Assumes Charge of New Railway Board Chairman?
A. AshwaniLohani
B. V K Yadav
C. AN Jha
D. Raninder Singh
17. He first Indian to cross seven important seas by swimming $\qquad$ $?$
D. BulaChaudhury
18. Krishna Poonia is associated with?
A. Football
B. Athletics
C. Chess
D. Hockey
19. The National Technology Day is celebrated on which of the following date?
A. May 10th
B. May 9th
C. May 11th
D. May $12^{\text {th }}$
20. Which online facility has been launched by the Union Government to provide a direct solution to the problem of agriculture sector?
A. e-KrishiSamasya
B. e-KrishiSamvad
C. e-KrishiSamveda
D. e-Krishi Solution

## CURRENT AFFAIRS

21. Which city is the venue of the 1st National EMRS National Sports Meet 2019?
a. Hyderabad
b. New Delhi
C. Dehradun
d. Chennai
22. Who has been named as the chief coach for the Indian women boxers?
a. Gurbax Singh Sandhu b. Anoop Kumar c. Mohammed Ali Qamar
d. Chhote Lal Yadav
23. Who has won the Franco-German Human Rights Award?
a. Maria da Penha
b.Yu Wensheng c.Thun Saray
d.Wang Qiaoling
24. D Gukesh, who has been crowned India's youngest Grandmaster (GM), is from which state?
a. Karnataka b. Tamil Nadu c. Andhra Pradesh d. Kerala
25. Who has been appointed the new CEO of the International Cricket Council (ICC)?
a. K P Sharma
b. Manu Sawhney
c. Mohan Das Pai
d. Vinod Rai
26. Which state government has recently decided to start bird hospitals?
a. Kerala
b. Delhi
c. Rajasthan
d. Madhya Pradesh
27. The 10 th edition of the India Rubber Expo (IRE-2019) has started in which of the following cities?
a. Mumbai
b. Kochi
c. Shimla
d. Hyderabad
28. Which organisation / personality has been chosen for the Gandhi Peace Prize 2018?
a. Ekal Abhiyan Trust b. Akshaya Patra Foundation c. Yohei Sasakawa d. Sulabh International
29. Who is the convenor of the newly constituted Group of Ministers (GoM) to look at issues related to lottery under GST?
a. Sudhir Mungantiwar
b. Himanta Biswa Sarma
c. Mauvin Godinho
d. Krishna Byre Gowda
30. Saksham 2019 is an annual high intensity people-centric mega campaign under the aegis of which ministry?
a. Ministry of Drinking Water and Sanitation
b. Ministry of Petroleum and Natural Gas
c. Ministry of Finance
d. Ministry of Information and Broadcasting

## QUANTITATIVE APTITUDE

Ratio and Proportion
31. Divide Rs. 2324 among $A, B, C$ in the ratio $70: 56: 40$
a) $980: 784: 560$
b) $490: 280: 392$
c) $392: 490: 280$
d) None
32. Divide Rs. 672 In the ratio 5: 3
a) $255: 255$
b) $253: 392$
c) $420: 252$
d) None

Problems on Trains
33. A train running at the speed of $60 \mathrm{~km} / \mathrm{hr}$ crosses a pole in 9 seconds. What is the length of the train?
a) 150 metres
b) 160 metres
c) 170 metres
d) None
34. A train 125 m long passes a man, running at $5 \mathrm{~km} / \mathrm{hr}$ in the same direction in which the train is going, in 10 seconds. The speed of the train is:
a) $50 \mathrm{~km} / \mathrm{hr}$
b) $52 \mathrm{~km} / \mathrm{hr}$
c) $55 \mathrm{~km} / \mathrm{hr}$
d) None
35. A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is $54 \mathrm{~km} / \mathrm{hr}$, what is the length of the platform?
a) 120 metres
b) 240 metres
c) 300 metres
d) None

## TEST OF REASONING

36. Find the alternative that will replace the question mark: Ally:Associate : : Obscene: ?
a) depressed
b) filthy
c) hatred
d) disgust
37. When Anuj saw Manish, he recalled, " He is the son of the father of my daughter". Who is Manish.
a) Cousin
b) brother-in-law
c) brother
d) uncle
38. Bala walked 25 km towards west, took a left turn and walked 15 km . He again took a left turn and walked 30 km . He then took a right turn and stopped. Now which direction, he was facing?
a) North
b) South
c) East
d) West
39. In a certain code, the following sentences are coded as:

Light is very sharp-8243 Right is very wrong-2817 Knife is sharp-548 Wrong and sharp- 476 How is wrong knife coded?
a) 47
b) 45
c) 75
d) 85
40. Find the odd man out
a) cathedral
b) Mosque
c) Temple
d) Monastery

## தமிழ்

41. 'பாரதசக்திகாவியம்' என்ற நூலின் ஆசிரியர் யார்?
அ. கவிமணி
ஆ. சுத்தானந்தபாரதியார்
இ. वுப்ரமணியபாரதியார்
ஈ. பாரதிதாசன்
42. 'பிச்சைக்காரன்' என்னும் கவிதையினை இயற்றியவர் யார்?
அ. கம்பதாசன்
ஆ பாரதிதாசன்
இ. வாணிதாசன்
ஈ. புலவர்குழந்தை
43. குழந்தைகளுக்காககதைப்பாடல்கள் எழுதிபாடப்புத்தகங்களில் சேர்த்தபெருமைக்குரியவர்? அ.க.நமச்சிவாயம் ஆ.கொத்தமங்கலசுப்பு இ.பாரதியார்
44. பாண்டியன் அறிவுடைநம்பிக்குஅறிவுரை कூறியபுலவர் யார்?
அ.பிசிராந்தையார்
ஆ.ดபாத்தியார்
இ.மோசிகீரனார்
ஈ.கபிலர்
45. மறைமலையடிகளின் இயற்பெயர் என்ன?

அ.வீரமாமுனிவர் ஆ.ஜி.யு.போப் இ.பரிதிமாற்கலைஞர் ஈ.சுவாமிவேதாச்சலம்
46. அப்பதியடிகள் வாழ்ந்த ஊர் எது?

அ.கயிலை ஆ.மதுரை இ.திங்களூர் ஈ.காரைக்கால்
47. ஸீவைஷ்ணவத்தின் வளர்ப்புத்தாய் எனப்போற்றப்படுபவர் யார்?

அ.ஆண்டாள் ஆ.இராமானுஜ் இ.வேதாந்ததேசிகர் ஈ.காரைக்கால்அம்மையார்
48. இந்தியமொழிகளில் முதன் முதலில் தமிழ் எழுத்துஅச்சிடும் முயற்சிஎந்தஆண்டுநடைபெற்றது?

அ.கி.பி. 1566 ஆ.கி.பி. 1577 இ.கி.பி. 1555 ஈ.கி.பி. 1544
49. ஒரே இரவில் கண்விழித்து இயற்றப்பெற்றநநாடகம் எது?

அ.சிறுதொண்டர் ஆ.பிரகலாதன் இ.பவளக்கொடி ஈ.அபிமன்யு
50. ‘சுகுணசுந்தரி’ளன்னும் நாவல் வெளிவந்தஆண்டுளது?
அ. 1986
ஆ. 1887
இ. 1876
ஈ. 1866

| EVERYDAY SCIENCE: | 1.A | $2 . \mathrm{B}$ | $3 . \mathrm{C}$ | 4.D | 5.D | $6 . \mathrm{B}$ | 7.A | 8.A | 9.D | C |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GENERAL STUDIES: | 11.B | 12.A | 13.B | 14.B | 15.C | 16. | 17.D | 18.D | 19.C | $20 . \mathrm{B}$ |
| CURRENT AFFAIRS: | 21.A | 22.C | 23.B | 24.B | 25.B | 26.B | 27.A | $28 . \mathrm{C}$ | 29.A | $30 . \mathrm{B}$ |
| QUANTITATIVE APTITUDE: | 31.A | 32.C | 33.A | 34.A | 35.B |  |  |  |  |  |
| TEST OF REASONING: |  | 37.B | $38 . \mathrm{B}$ | $39 . \mathrm{C}$ | 40.D |  |  |  |  |  |

EXPLANATION:
36.b) Associate is the synonym of Ally. By using the same logic, we conclude, filthy is the synonym for obscene.
37.b) Anuj's daughter's mother - Anuj's wife, Anuj's wife's father - Anuj's father in law Father in law's son - Anuj's brother in law, So, Manish is Anuj's brother in law
38 .b) South

39. c) Given, I) 'light is very sharp' --- 8243, II) 'right is very wrong' --- 2817, III) 'knife is sharp' --- 548 and IV) 'wrong and sharp' --- 476.

|  | Common <br> Word | Common Code |
| :---: | :---: | :---: |
| From I, II and III | is | 8 |
| From I, III and IV | sharp | 4 |
| From I, II | very | 2 |
| From II, IV | wrong | 7 |

Thus, the remaining words and their corresponding codes are:
light --- 3, right --- 1 , knife -5 , and -6
40.d) All except Monastery are places of worship, while monastery is a place where monks stay.

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

## EVERYDAY SCIENCE

1. Brass gets discoloured in air because of the presence of which of the following gases in air?
a) Oxygen
b) Hydrogen sulphide
c) Carbon dioxide
d) Nitrogen
2. Which of the following is a non metal that remains liquid at room temperature?
a) Phosphorous
b) Bromine
c) Chlorine
d) Helium
3. Which of the following is a large blood vessel that carries blood away from the heart?
a) Vein
b) Artery
c) Capillary
d) Nerve
4. The blue baby pollution disease is due to the excessive presence of which of the following in drinking water?
a) Arsenic
b) Fluoride
c) Chloride
d) Nitrate
5. Which one among the following is the hardest part of our body?
a) Skull bones of head
b) Enamel of teeth
c) Thumb nails
d) Spinal vertebra
6. Where is the Headquarter of ISRO?
a) Chandipur
b) Bengaluru
c) Mahendragiri
d) Chennai
7. Which of the following missile works on the theory of "fire and forget"?
a) Brahmos
b) Akash
c) Nag
d) Sourya
8. Which one of the following is commonly known as Vegetable meat?
a) Mushroom
b) Fish
c) Mean Maker
d) Flesh of animals
9. Eco mark is given to the Indian products that are
a) Economically viable
b) Rich in proteins
c) Environmentally friendly
d) Pure and unadulterated
10. Which one of the following is designated as the 'lungs of the world'?
a) Equatorial evergreen forests
b) Mid latitude mixed forests c) Taiga forests
d) Mangrove forests
GENERAL STUDIES
11. In which place the foundation for AIIMS hospital is laid in TamilNadu?
(A)Thoppur, Madurai
(B) Kadaladi, Ramanadapuram
(C) Both A and B
(D) Trichy
12. Who got Padmashri award on $26^{\text {th }}$ Jan 2019 from TamilNadu?
(A) Chinna Pillai
(B) Cinnamon
(C) China Thai
(D) Chinna li
13. Who is the defence Minister of India?
(A)Rajnath Singh
(B) Arun Jetley
(C) Nirmala Sitharaman
(D)Rahul Gandhi
14. The shareholding of the Government Company has ----------
(A) $48 \%$ paid - up Share capital owned by Government
(B) $51 \%$ paid - up Share capital owned by Government
(C) $49 \%$ paid - up Share capital owned by Government
(D) $75 \%$ paid - up Share capital owned by Government
15. Goodwill is a--------
(A) Floating Asset
(B) Wasting Asset
(C) Fictitious Asset
(D) Intangible Asset
16. Share application is a-------
(A) Personal A/C
(B) Real A/C
(C) Nominal A/C
(D) None of these
17. Total number of states in India is-------
(A) 30
(B) 31
(C) 29
(D) 33
18. In which state the biggest statue is situated in India?
(A) Gujarat
(B) Tamilnadu
(C) Kerala
(D) Uttrapradesh
19. According to the Census in 2018(projected), which city in India has the largest population?
(A) Uttar Pradesh
(B) Maharashtra
(C) Bihar
(D) West Bengal
20. Who is the first Justice of Madras High court --------?
(A) Ravi
(B) Monokar
(C) V.K.Tahilramani
D) Saktikanta Das

CURRENT AFFAIRS
21. Yuva Swabhiman Yojana to provide employment for the unemployed youth from the economically weaker sections of the society was introduced by $\qquad$ state government
a) Madhyapradesh
b) Tamilnadu
c) odisha
d) Kerala
22. 'Pravasi Dividend Pension Scheme (a scheme for giving pension to NRI) was introduced by $\qquad$ State Government
a) Karnataka
b) Tripura
c) Kerala
d) Tamilnadu
23. Prime Minister Narendra Modi has laid the foundation stone for the Mandal Dam Project on the North Koel River on $\qquad$
24.
b) 24-01-19
c) 27-01-2019
d) 05-01-2019
a) 06-01-2019
was celebrated as National Voters day
a) 26- January
b) 25- January
c) 15 March
d) 26- January
25. On ___ Narendra Modi, Prime minister of India laid foundation stone for AIIMS (All India Institute of Medical Sciences) hospital at Madurai
a) $26 / 01 / 2019$
b) $27 / 01 / 2019$
c) $25 / 01 / 2019$
d) $09 / 01 / 19$
26. Telangana to have separate high court from
a) $05 / 01 / 2019$
b) $01 / 01 / 2019$
c) $10 / 01 / 2019$
d) $21 / 01 / 2019$
27. 'Bharat Ratna Atal Bihari Vajpayee International Schools' for students for students in rural areas was launched by $\qquad$ Government
a) Delhi
b) Maharastra
c) Tamilnadu
d) Karnataka
28. Bharath Ratna Award for 2019 was announced for $\qquad$ persons
a) 4
b) 3
c) 94
d) 14
29. "My Vote Matters"a quarterly magazine was released by
a) Central Election Commission
b) MHRD
c) Presiding officer
d) District Collector
30. International Day of Education was celebrated on

20 Jana
d) 23 January

QUANTITATIVE APTITUDE
31. The price of 80 apples is equal to that of 120 oranges. The price of 60 apples and 75 oranges together is Rs. 1320. The total price of 25 apples and 40 oranges is....
A. Rs. 660
B. Rs. 620
C. Rs. 820
D. Rs. 780
32. An organization decided to raise Rs. 6 lakh by collecting equal contribution from each of its employees. If each of them had contributed 60 extra, the contribution would have been Rs. 6.24 lakh. How many employees are there in that organization?
A. 400
B. 300
C. 200
D. 100
33. A room has equal number of men and women. Eight women left the room, leaving twice as many men as women in the room. What was the total number of men and women present in the room initially?
A. 32
B. 34
C. 28
D. 30
34. A man has Rs. 312 in the denominations of one-rupee notes, five-rupee notes and twenty-rupee notes. The number of notes of each denomination is equal. What is the total number of notes that he has ?
A. 36
B. 24
C. 28
D. 32
35. If the number of boys in a class is 8 times the number of girls, which value can never be the total number of students?
A. 27
B. 45
C. 81
D. 42

TEST OF REASONING
36. Which will appear third in the dictionary?
a) Monarchy
b) Monastic
c) Monetary
d) Moneyed
37. If '+' means divided by, ' - ' means added to, ' * ' means subtracted from, and '/ ' means multiplied by, then $26-15+5 \times 4 / 2=$ ?
a) 15
b) 20
c) 25
d) 21
38. If 'DA' is related to 'IF', 'NK' will be related to
a) SP
b) PS
c) PR
d) SR
39. Choose the word which is different from the rest
a) Tomato
b) Carrot
c) Ginger
d) Potato
40. Man: Lip : : Bird: ?
a) Bush
b) Grass
c) Forest
d) Beak

## தமிழ்

1. யுத்த காண்டத்தில் உள்ள படலங்களின் எண்ணிக்கை?
அ) 23
ஆ) 39
இ) 16
ஈ) 14
2. திராவிடச் சிசு எனப் போற்றப்படுபவர் யார்?
இ) திருஞானசம்பந்தர் ஈ) மாணிக்கவாசகர்
அ) அப்பர்
ஆ) சுந்தரர்
3. பட்டர் பிரான் என அழைக்கப்பட்டவர் யார்?
அ) பொய்கையாழ்வார்
ஆ) பூதத்தாழ்வார்
இ) தொண்டரடிப்பொடியாழ்வார்
ஈ) பெரியாழ்வார்
4. உலா இலக்கியம் கூறும் பெண்களின் வளர்ச்சிநிலை எத்தனை?
அ) 5
ஆ) 6
இ) 7
ஈ) 8
5. ஆறு பொருளில் மனநோயை குணப்படுத்தும் நூல் எது?
அ) ஏலாதி
ஆ) திாிகடுகம்
இ) சிறுபஞ்சமூலம்
ஈ) நாலடியாா்
6. சிவபெருமானின் வலது கண்ணில் தோன்றிய இலக்கியம் எது?

அ) திருவிளையாடல் புராணம் ஆ) பெரிய புராணம் இ) கந்த புராணம் ஈ)
7. தமிழ்நாட்டின் பெர்னாட்‘ா என அழைக்கப்படுபவர் யார்?

அ) அறிஞர் அண்ணா ஆ) தந்தை பெரியார் இ) புதுமைப்பித்தன் ஈ) வாணிதாசன்
8. வனப்புகள் மொத்தம் எத்தனை வகைப்படும்?
அ) 6
ஆ) 5
இ) 4
ஈ) 8
9. ஓரறிவு உடைய உயிர்கள் எது?

அ) நந்து, முரள் ஆ) சிதல், எறும்பு
இ) நெல், புல்
ஈ) நண்டு, தும்பி
10.பொருள் இலக்கணத்தின் வகைகள் எத்தனை? அ) 2

ஆ) 3
இ) 5
ஈ) 12

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

36. Answer (c) : The correct order is: Monarchy, Monastic, Monetary, Moneyed.
37. Answer (d) :

If we put with correct symbols, the equation ' $26-15+5 * 4 / 2$ ' would be written as ' $26+15 / 5-4 \times 2$ '.

$$
=26+3-4 \times 2=26+3-8=21
$$

38. Answer (a):


Similarly,

39. Answer (a) : Except Tomato all the others are Root vegetables
40. Answer (d) : Lip is a human body part, while the beak is a bird body part.

தமிழ் விடைகள்:

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

## EVERYDAY SCIENCE

1. When a 40 V battery is connected across an unknown resistor there is a current of 100 mA in the circuit. Find the value of the resistance of the resister:
a) $5000 \Omega$
b) $800 \Omega$
c) $0.8 \Omega$
d) $400 \Omega$
2. A fuse wire is inserted in
a) Live wire
b) neutral wire
c) earth wire
d) any line
3. The amount of light entering the human eye is controlled by
a) Ciliary muscles
b) Pupil
c) Cornea
d) Iris
4. When a magnesium ribbon is burnt in air, the ash formed is
a) black
b) white
c) yellow
d) pink
5. Both $\mathrm{CO}_{2}$ and $\mathrm{H}_{2}$ gases are
a) heavier than air
b) colourless
c) acidic in nature
d) soluble in water
6. When carbon dioxide is passed through lime water,
a) calcium hydroxide is formed
b) white precipitate of CaO is formed
c) lime water turns milky
d) colour of lime water disappears
7. Proteins after digestion are converted into
a) Carbohydrates
b) Small globules
c) Amino acids
d) starch
8. Main site of photosynthesis
a) Leaf
b) Stem
c) Chloroplast
d) Guard cells
9. Respiratory pigment in human body is
a) Chlorophyll
b) Water
c) Blood
d) haemoglobin
10. Which of the following computer language is used for artificial intelligence?
a) FORTRAN
b) PROLOG
c) C
d) COBOL

GENERAL STUDIES
11. Mahatama Gandhi had launched his first Satyagraha in India from which among the following places?
a) Kheda
b) Bardoli
c) Champaran
d) Sabarmati
12. Which among the following Indian classical dance form was developed by Siddhendra Yogi from Bhamakalapam dance drama?
a) Kuchipudi
b) Odissi
c) Yakshagana
d) Kathkali
13. Which of the following European countries is known as the 'Land of a thousand lakes'?
a) Norway
b) Sweden
c) Finland
d) Estonia Hide Answer
14. Which among the following bodies estimates the national income of India?
a) Office of the Economic Advisor
b) Ministry of Statistics
c) Central Statistical Office
d) Ministry of Finance
15. Who is the Ex Officio Chairman of the Rajya Sabha?
a) The President
b) The Vice President
c) The Prime Minister
d) None of the above
16. India will remain the fastest growing major economy with GDP growth estimated to be $\qquad$ \% in FY19, as per Confederation of Indian Industry (CII)'s report titled 'Growth Outlook for 2019'?
a) $7.2 \%$
b) $7.5 \%$
c) $7.7 \%$
d) $7.9 \%$
17. ___ has been announced as the 33rd district of Tamil Nadu after bifurcating Villupuram district, on January 8, 2019?
a) Marakkanam
b) Kallakurichi
c) Ulundurpet
d) Vikravandi
18. Who appoints the Judges of the Supreme Court of India ?
a) The Prime Minister
b) The President
c) The Chief Justice of India
d) The Ombudsman
19. What is the rank of India among the world's most innovative countries according to the Bloomberg 2019 Innovative Index?
a) 46
b) 75
c) 54
d) 98
20. What is the nature of the Indian Constitution?
a) Federal
b) Unitary
c) Parliamentary
d) Federal in nature but unitary in spirit
CURRENT AFFAIRS
21. An Eco Circuit-Pathanamthitta-Gavi-Vagamon-Thekkady was recently inaugurated in which of the following southern states of India?
a)Karnataka
b) Andrapradesh
c) Tamilnadu
d)kerala.
22. Who among the following hockey players has been awarded International Hockey Federation's male player of the year for 2018?
a)Akash Chikte
b)Suraj Karkera
c) Arthur Van Doren
d)Vincent Vanasch
23. Who among the following female hockey players has been awarded International Hockey Federation's player of the year for 2018?
a) Rani Rampal
b) Savita Punia
c)Sunita Lakra
d)Eva de Goede
24. Who among the following Indian female badminton players has won the $83^{\text {rd }}$ Senior Badminton National Championship?
a)Saina Nehwal
b)PV Sindhu
c) Tanvi Lad
d) N Sikkin Reddy
25. Who among the following Indian male badminton players has won the $83^{\text {rd }}$ Senior Badminton National Championship?
a)Lakshya Sen
b)Sourabh Verma
c) Vimal Kumar
d)Sohan Mandila
26. Which regional cricket team of India has won the Irani Trophy 2019 ?
a)Vidarbha
b)Suraashtra
c)Delhi
d)Karnataka
27. National Aids Research Institute (NARI) which is soon going to change its name is located in which of the following city?
a)Pune b)Mumbai c)Delhi d)Chandigarh
28. Which of the following Indians appointed as Controller, Assistant Secretary- General in the Department of Management Strategy, Policy and Compliance at the United Nations?
a)P. Lingarajam $\quad$ b)Krishna Kumar Bhagawat c)Chandramouli Ramanathan d)Shashikanta Das
29. Who is the present Secretary-General of United Nations?
a)Amina J.Mohammed
b)Marie Chatardova c)Maria Fernanda Espinosa
d)Antonio Guterres
30. After the recent attack on CRPF in Kashmir, India announced the withdrawal of $\qquad$ status of Pakistan on Feb 15.
a)Allies Nation
b)Most Favoured Nation
c)Office of Fair Trading d) Most Favoured Trade Partner QUANTITATIVE APTITUDE
31. The salaries of $\mathrm{A}, \mathrm{B}$ and C are in the ratio 5:3:2.If the increments of $20 \%, 10 \%$ and $20 \%$ are allowed in their salaries, then what will be the new ratio of their salaries ?
A)22:11:9
B) $22: 10: 8$
C) $20: 11: 8$
D)20:10:9
32. Find out the third proportion of the term 12 and 24
A) 38
B) 44
C) 48
D) 42
33. $x: y=7: 4$ then $(4 x+7 y):(7 x+4 y)$
A)65:56
B)56:65
C) $34: 45$
D)13:18
34. $x^{2}-30 x+104=0$ $\mathbf{y}^{2}-53 \mathbf{y}+702=0$
A. $X>Y$
B. $\mathrm{X}<\mathrm{Y}$
C. $\mathrm{X} \geq \mathrm{Y}$
D. $\mathrm{X} \leq \mathrm{Y}$
35. $x^{2}+30 x+221=0$
$\mathbf{y}^{2}-53 y+196=0$
A. $X>Y$
B. $\mathrm{X}<\mathrm{Y}$
C. $\mathrm{X} \geq \mathrm{Y}$
D. $\mathrm{X} \leq \mathrm{Y}$

## TEST OF REASONING

36. Find out the missing number. $2,9,28,65, \ldots$
(a) 120
(b) 123
(c) 126
(d) 129
37. Four out of five pairs of numbers have the same relationship. Find the odd-man out?
(a)4:63
(b) $1: 0$
(c) $5: 124$
(d) $2: 15$
38. If TEMPLE is coded as VHQNIA, how would you code CHURCH?
(a) EKYWI
(b) EKYQZD
(c) EKYPZD
(d) EKYQWD
39. "Museum" is related to "Curator" in the same way as "Prison" is related to
(a) Warden
(b) Monitor
(c) Manager
(d) Jailor
40. From a point, Rajesh started walking East and walked 35 metres. He then turned towards his right and walked 20 metres and he again turned right and walked 35 metres. Finally, he turned his left and walked 20 metres and reached his destination. Now, how far is he from his starting point?
(a) 50 metres
(b) 55 metres
(c) 20 metres
(d) 40 metres

தமிழ்
41. கில்லாடிஎன்னும் சொல் எந்தமொழிக்குஉரியது?

அ.தமிழ் ஆ.ஆங்கிலம் இ.குஜராத்தி ஈ.மராத்தி
42. குடவோலைத் தேர்தல் முறையயைக் கூறும் நூல் எது?

அ.குறுந்தொகை ஆ.கலித்தொகை இ.அகநானூறு ஈங்குநூறு
43. 'குறிஞ்சிக் கிழவன்’எனஅழைக்கப்பெறுபவன் யார்?

அ.சிவன் ஆ.முருகன் இ.இந்திரன் ஈ.வருணன்
44. குலசேகரஆழ்வார் பிறந்த ஊர் எது?

அ.திருவாஞ்சைகளம் ஆ.திருவாரூர் இ.திருப்பரங்குன்றம் ஈ.திருவில்லிப்புத்தூர்
45. ‘கொடிமுல்லை’என்றகவிதை நூலின் ஆசிரியர் யார்?

அ.வாணிதாசன் ஆ.கண்ணதாசன் இ.பாரதிதாசன் ஈ.பெரியார்தாசன்
46. 'குறட்டைஒலி'என்றுிறுகதையின் ஆசிரியர் யார்?

அ.மு.வ. ஆ.ந.பா இ.சி.பா.ஆ ஈ.கு.ப.ரா
47. குதிரைப்படையின் மற மாண்பினைப் பற்றிக் கூறுவது -----?

அ.யானைமறம் ஆ.குதிரைமறம் இ.முன்தேர்க்குரவை ஈ.பின்தேர்குவை
48. 'அம்மாவந்தாள்’என்னும் நாவலின் ஆசிரியர் யார்?

அ.கு.பா.ராஜகோபாலன் ஆ.வ.சுப.மாணிக்கம இ.தி.ஜானகிராமன் ஈ.கி.ராஜநாராயணன்
49. அரிச்சந்திரபுராணஆசிரியர் யார்?

அ.வான்மீகி . ஆ.கம்பர் . இ.கண்ணதாசன் . ஈ.வீரகவிராயர்
50. ஆதிச்சநல்லூரில் கண்டெடுக்கப்பட்டமுதுமக்கள் தாழியின் சிறப்புயாது?

அ.கி.மு. 800 தமிழ் எழுத்துக்கள் ஆ.கி.பி. 800 தமிழ் எழுத்துக்கள்
இ.கி.பி. 900 தமிழ் எழுத்துக்கள் ஈ.கி.மு. 900 தமிழ் எழுத்துக்கள்

## ANSWERS: GENERAL KNOWLEDGE

(23-02-2019)

33. B) $56: 65$

Explanation :(4(7)+7(4)) : (7(7)+4(4)) =56:65
34. D. $\mathrm{X} \leq \mathrm{Y}$

Explanation:
$\mathrm{x}^{2}-30 \mathrm{x}+104=0$
$\mathrm{x}=26,4$
$y^{2}-53 y+702=0$
$y=26,27$
35. B. $\mathrm{X}<\mathrm{Y}$

Explanation:
$(x+13)(x+17)=0$
$\mathrm{x}=-13,-17$
$y^{2}-53 y+196=0$
$y=49,4$
TEST OF REASONING: 36.C 37.D 38.C 39.D 40.D
36. $2=1^{3}+1 ; 9=2^{3}+1 ; 28=3^{3}+1 ; 65=4^{3}+1 ; 126=5^{3}+1$ Answer: c) 126
37. $4: 63=4: 4^{3}-1 ; \quad 1: 0=1: 1^{3}-1 ; \quad 5: 124=5: 5^{3}-1 ; \quad 2: 15 \neq 2: 2^{3}-1$
(Second number is one less than the cube of the first number) Answer: d) 2:15
38. T ( +1 ) $\rightarrow \mathrm{V} ; \quad \mathrm{E}(+2) \rightarrow \mathrm{H} ; \quad \mathrm{M}(+3) \rightarrow \mathrm{Q} ; \quad \mathrm{P}(-1) \rightarrow \mathrm{N} ; \quad \mathrm{L}(-2) \rightarrow \mathrm{I} ; \quad \mathrm{E}(-3) \rightarrow \mathrm{A}$

Like this: $\mathrm{C}(+1) \rightarrow E ; \mathrm{H}(+2) \rightarrow K ; \quad \mathrm{U}(+3) \rightarrow \mathrm{Y} ; \quad \mathrm{R}(-1) \rightarrow \mathrm{P} ; \quad \mathrm{C}(-2) \rightarrow \mathrm{Z} ; \quad \mathrm{H}(-3) \rightarrow \mathrm{D}$
Answer: c) EKYPZD
39. Muesum In-charge is Curator. Prison In-charge is Jailor. Answer: d) Jailor 40. The starting point $x$.

North $\uparrow$ starting point
Answer:d 40 m


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

## EVERYDAY SCIENCE

1. Objects that produce their own light are called
a) Luminous objects
b) Non-luminous objects
c) Transparent objects
d) Opaque objects
2. Name the instrument used to measure the altitude in aircrafts.
a) Audiometer
b) Ammeter
c) Altimeter
d) Anemometer
3. Depth of ocean is measured by
a) Galvanometer
b) Flux meter
c) Endoscope
d) Fathometer
4. The method to detect the prehistoric age using radioactivity is
d) Deuterium dating
c) Carbon dating
a) Radium dating
b) Uranium dating
d) Hydrogen ( )
c) Turpentine
a) Nylon
b) Cane - sugar
( )
c) Sodium nitrate
a) Sodium bicarbonate
b) Sodium carbonate
b) Visiting of insects to flowers
d) Transfer of pollens from anther to stigma
a) Germination of pollen grains
5. Transpiration is least in
a) Good soil moisture
b) High wind velocity
c) High atmospheric humidity
d) Dry environment
6. Main use of salt in diet is to
a) Produce small amount of hydrochloric acid required for digestion
b) Ease the process of cooking
c) Increase the taste
d) Increase solubility of food particles in water
7. Fresh Yeast cells are good source of
a) Caffeine
b) Vitamin-B
C) Nicotine
d) Morphine

## GENERAL STUDIES

10. Appointment of a Company Secretary is made by-
c) Debenture holders
d) Government
a) Promoters
b) Board of Directors
11. Double Entry System was introduced in-
a) America
b) Japan
c) India
d) Italy
12. The account that records expenses and losses, Incomes and gains is
a) Personal A/c
b) Real $A / c$
c) Nominal $A / c$
d) Intangible asset
13. Which of the following schemes have been subsumed in the recently approved Ayushman Bharat National Health Protection Mission (AB-NHPM)?
b) Senior Citizen Health Insurance Scheme (SCHIS)
a) Rashtriya Swasthya Bima Yojana (RSBY)
c) National Life Insurance Scheme
d) $1 \& 2$
14. Which among the following is the oldest Public Sector Bank of India?
d) ( )
a) Punjab National Bank
b) Imperial Bank of India
c) Allahabad Bank
d) Central bank of India
15. What is the share of Government of India in NABARD?
a) $50 \%$
b) $51 \%$
c) $75 \%$
d) $99 \%$
16. When were the first general elections held?
a) 1920
b) 1952
C) 1962
d) 1999
17. First Governor general of India
a) Lord Amhorst
b) Lord William Bentinck
c) Sir Charles Metcalfe
d) Robert Clive
18. In which year, the Danish East India company was formed?
a) 1614
b) 1615
c) 1616
d) 1617
19. Which among following first generation of computers had?
a) Vacuum Tubes and Magnetic Drum
b) Integrated Circuits
c) Magnetic Tape and Transistors
d) All of above

## CURRENT AFFAIRS

20. When was World Hearing Day Observed?
a) $1^{\text {st }}$ March
b) $2^{\text {nd }}$ March
c) $3^{\text {rd }}$ March
d) $4^{\text {th }}$ March
y to fund science projects?
d) STARS
a) SITAR
b) STARE
c) STARK
for school children.
a) Ecotech
b) Stuff You Should Know
c) Nordita Scientific Program
d) YuvaVIgyaniKaryakram
21. Who launched the National Common Mobility Card (NCMC) to enable people to pay multiple kinds of transport charges, including metro services and toll tax, across the country?
a) Narendra Modi
b) Arun Jaitley
c) Ram NathKovind
d) Rajnath Singh
22. Which bank receives Best Bank Award from the state government of Tamil Nadu?
a) Canara Bank
b) Indian Bank
c) Axis Bank
d) HDFC Bank
23. Which country tops in the Confidence Board Global Consumer Confidence Survey?
a) India
b) South Korea
c) Indonesia
d) Philippines
24. National Safety Council of India celebrates National Safety Day on every 4th March. Its theme is; ( )
a) Manage stress at Workplace and Control Hazards
b) Build a Safety Culture for Sustainable Supply Chain
c) Cultivate and Sustain a safety culture for building nation
d) Work Together to ensure safe and healthy workplace
25. Who has been choosen for the 2019 Missile Systems Award?
a) A. S. Kiran Kumar
b) Kailasavadivoo Sivan
c) V. K. Saraswat
d) Satheesh Reddy
26. Prime Minister Narendra Modi inaugurated, Expo-cum Conference on Construction Technology India 2019 in which city?
a) Mumbai
b) New Delhi
c) Kolkata
d) Hyderabad
27. World Wildlife Day is observed on 3rd March. The theme for World Wildlife Day 2019 is;
a) It's time to get serious about wildlife crime
b) Life below water: for people and planet
c) Listen to the young voices
d) Big cats - predators under threat

## QUANTITATIVE APTITUDE

30. A right triangle with sides $3 \mathrm{~cm}, 4 \mathrm{~cm}$ and 5 cm is rotated the side of 3 cm to form a cone. The volume of the cone so formed is:
a) $12 \mathrm{~cm}^{3}$
b) $15 \mathrm{~cm}^{3}$
C) $16 \mathrm{~cm}^{3}$
d) $20 \mathrm{~cm}^{3}$
31. Find odd man out

2, 5, 10, 17, 26, 37, 50, 64 a) 50
b) 26
c) 37
d) 64
32. Find odd man out $331,482,551,263,383,362,284$
a) 263
b) 383
c) 331
d) 551
33. 1, 4, 9, 16, 25, 36, 49, (....)
a) 54
b) 56
c) 64
d) 81
34. Find the HCF of 160,220 , and 340.
a) 10
b) 20
C) 30
d) 55

## TEST OF REASONING

35. Look at this series: 201, 202, 204, 207 $\qquad$ What number should come next?
d) 211
36. Choose the figure which is different from the rest. (
c) 210
( )
a) 205
b) 208

)
a) 1
b) 5
c) 3
d) 4
37. Gobi started from his house towards North. After covering a (distanç) of $\& \frac{k y y}{c}$. heturned towards left and covered a distance of 6 km . What is the shortest distance now from his House?
a) 10 KM
b) 16 KM
c) 6 KM
d) 2 KM
38. Entrepreneur: profit : : Scholar : ?
a) Income
b) Knowledge
c) Service
d) Business
39. Find the odd one out
a) Tempest
b) Hurricane
c) Cyclone
d) Monsoon

தமிழ்
40. இராமாயணப் போர் நடைபெற்ற காலத்தின் எண்ணிக்கை?
அ) 18 வருடங்கள்
ஆ) 18 மாதங்கள்
இ) 18 நாட்கள்
ஈ) 18 நாழிகைகள்
41. பதிணென் கீழ்கணக்கு நூல்களில் புறத்திணை எத்தனை?
அ) 1
ஆ) 3
இ) 11
ஈ) 6
42. பத்துப்பாட்டில் கடையேழுவள்ளல்கள் பற்றி கூறும் நூல் எது? அ) திருமுருகாற்றுப்படை ஆ) மதுரைக்காஞ்சி

இ) பொருநராற்றுப்படை
ஈ) சிறுபாணாற்றுப்படை
43. பொருந்தாச் சொல்லைக் கண்டறிக?
அ) அச்சம்
ஆ) சினம்

இ) பயிர்ப்பு
ஈ) மடம்
44. பொருந்தாச் சொல்லைக் கண்டறிக?
அ) வெட்சி
ஆ) பொதுவியல்
இ) குறிஞ்சி
ஈ) பாடான்
45. அகர வாிசைப்படுத்துக?

அ) இனிமை, எளிமை, கடமை, திறமை
ஆ) இனிமை, எளிமை, திறமை, கடமை
இ) இனிமை, கடமை, எளிமை, திறமை
ஈ) கடமை, திறமை, இனிமை, எளிமை
46. பொருந்தா நூல் எது?
அ) நான்மணிக்கடிகை
ஆ) நாலடியாா்
இ) புறநானூறு
ஈ) காா் நாற்பது
47. பொருள்கோள் வகைகளின் எண்ணிக்கை யாது?
அ) 4
ஆ) 6
இ) 8
ஈ) 10
48. பொருத்துக

| அ) குமரன், தென்னை | - 1. இடைப்பெயா் | 1 | 2 | 3 | 4 | ( |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ஆ) காடு, மலை | - 2. காலப்பெயா் | 2 | 4 | 1 | 3 | ( |
| இ) பூ, திங்கள் | - 3. பொருட்பெயா் | 4 | 3 | 2 | 1 | ( |
| ஈ) திங்கள், வாரம் | 4. சினைப்பெயா் | 2 | 4 | 1 | 3 | ( |

49. மேற்கணக்கு நூல்கள் என்று அழைக்கப்படுபவை எது?

அ) நீதி இலக்கியம்
இ) எட்டுத்தொகை, பத்துப்பாட்டு
ஆ) பக்தி இலக்கியம்
ஈ) இக்கால இலக்கியம்

## EVERYDAY SCIENCE :-

1. A
2. C
3. D
4. C
5. B
6. A
7. D
8. C
9. A
10. B

## GENERAL STUDIES :-

| 11. B | 12. D | 13. C | 14. D | 15. C |
| :--- | :--- | :--- | :--- | :--- |
| 16. D | 17. B | 18. B | 19. C | 20. A |

CURRENT AFFAIRS :-

| 21. C | 22. D | 23. D | 24. A | 25. B |
| :--- | :--- | :--- | :--- | :--- |
| 26. A | 27. C | 28. D | 29. B | 30. B |

EXPLANATION:
21. Answer: Option C World Hearing Day is observed on 3rd March every year by Office of Prevention of Blindness and Deafness of the WHO (World Health Organization). The Theme for this year's World hearing day is "Check your Hearing". This year, WHO launched an app, Hear WHO that will allow people to check their hearing.
22. Answer: Option D: On the occasion of National Science Day (NSD-2019), the Union Human Resource Development (HRD) Minister, Prakash Javadekar launched Rs 250 crore scheme 'STARS' to fund 500 science projects. The selection of these projects would be done on the basis of competitions. The project will be coordinated by the Indian Institute of Science (IISc), Bangalore. Interested candidates will have to submit applications to take part in the competition. The applications will release on the first week of April 2019. The acronym of STARS stands for "Scheme for Translational and Advanced Research". Beside this, the HRD Ministry in collaboration with the National Skill Ministry and Labour and employment Ministry collaboratively launched SHREYAS - Scheme for Higher Education Youth for Apprenticeship and Skills to empower nontechnical courses.
23. Answer: Option D: Indian Space Research Organisation has launched 'YuvaVlgyaniKaryakram', a 'Young Scientist Programme' for the School Children to be studying in the 9th standard. 'Catch them young' residential training programme will be of around two weeks duration during summer holidays with a proposal to select 3 students from each State and Union Territory, covering CBSE, ICSE and State syllabus.
24. Answer: Option A : PM NarendraModi launched the indigenously-developed National Common Mobility Card (NCMC) to enable people to pay multiple kinds of transport charges, including metro services and toll tax, across the country. Dubbed as 'One Nation One Card', the inter-operable transport card would allow the holders to pay for their bus travel, toll taxes, parking charges, retail shopping and even withdraw money.
25. Answer: Option B: Indian Bank, a Public Sector Bank (PSB), headquartered at Chennai, Tamil Nadu has been awarded the Best Bank Award by the Tamil Nadu government for successfully meeting the needs of women's self-help groups (SHGs). The award was given to MK Bhattacharya, the executive director of Indian Bank by the Chief Minister of Tamil Nadu K Palaniswami at Salem, Tamil Nadu.
26. Answer: Option A: India ranked first in the Confidence Board Global Consumer Confidence Survey which was conducted in collaboration with a global performance management company Nielsen Holdings. India maintained its 1st position from 3rd quarter and in the 4th quarter of 2018 India's Consumer Confidence Index (CCI) score is 133 . South Korea has the most pessimistic consumer who are worried about rising inflation, lower wage growth, unemployment, a weak stock market and global trade uncertainties in the world. CCI Confidence Board measured optimism towards job prospects, health of personal finances and spending intentions in the next 12 months for the survey. The Global Consumer Confidence Index became highest in 14 years by increasing one point to 107 in 4 th quarter of 2018. The increase in confidence is a positive sign for economic and business growth in 2019.
27. Answer: Option C : In India, National Safety Day(NSC) is observed on 4th March every year by National Safety Council of India. This day is celebrated to make every people safe from issues like Financial Loss, Health problems and environmental problems.NSC was set up on 4th March 1966 by Ministry of Labour, GOI. The day was initiated in 1972 as a commemoration to the Foundation Day of the National Safety Council (NSC). Theme - "Cultivate and Sustain a safety culture for building nation".
28. Answer: Option D: Satheesh Reddy, the Secretary of India's Department of Defence R\&D and Chairman of the Defence Research and Development Organisation (DRDO) has been chosen by the American Institute of Aeronautics and Astronautics (AIAA) as the co-winner of the 2019 Missile Systems Award. The other co-winner is Rondell J. Wilson who is a former Principal Engineering Fellow of Raytheon Missile Systems. Satheesh Reddy is the first person to be honoured with this award outside the USA in 40 years.
29. Answer: Option B: Prime Minister Narendra Modi inaugurated the two day Expo-cum Conference on Construction Technology India 2019 (CTI-2019) in New Delhi. It will identify proven, innovative and globally established technologies such as researchers, startups, developers, academia, etc. For use which will be in the Indian context. The event will provide a space for interaction among stakeholders that can open up new areas for collaboration and will facilitate. The conversion of ideas into marketready products which is ready to be launched in the market place. The main beneficiary of the initiative is youth. Technologies which are proven during CTI-2019 will further invited to design and build lighthouse projects. The project of one thousand housing unit in 6 state that are Gujarat, Jharkhand, Madhya Pradesh, Tamil Nadu, Tripura and Uttar Pradesh.
30. Answer: Option B: World Wildlife Day is observed on 3rd March every year to spread awareness about wildlife. This date was designated as the World Wildlife Day on 20 December 2013 at the 68th session of the United Nations General Assembly (UNGA). On this day, the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) was signed. The theme for World Wildlife Day 2019 is 'Life below water: for people and planet', which corresponds to goal 14 of the Sustainable Development Goals (SDGs) which is 'Life below water's.

## QUANTITATIVE APTITUDE :-

31. A
32. D
33. B
34. C
35. B

## EXPLANATION:

31. Ans: A Explanation: Clearly, we have $r=3 \mathrm{~cm}$ and $h=4 \mathrm{~cm}$.
$\therefore$ Volume $=\frac{1}{3} \pi r^{2} h=\left(\frac{1}{3} \times \pi \times 3^{2} \times 4\right)_{\mathrm{cm}^{3}}=12 \pi \mathrm{~cm}^{3}$.


32. Ans: D Explanation:(1*1)+1, (2*2)+1, (3*3)+1, (4*4)+1, (5*5)+1, (6*6)+1, (7*7)+1, (8*8)+1 But, 64 are out of pattern.
33. Ans: B Explanation:In each number except 383, the product of first and third digits is the middle one.
34. Ans: $C$ Explanation: Numbers are $1^{2}, 2^{2}, 3^{2}, 4^{2}, 5^{2}, 6^{2}, 7^{2}$. So, the next number is $8^{2}=64$.
35. Answer: Option B First, we will start by writing the numbers in the standard form. Thus, the numbers will be written as:
$160=2^{3} \times 2^{2} \times 5220=2^{2} \times 5 \times 11 \quad 340=2^{2} \times 5 \times 17$
So, the numbers common in the above sequence are $2^{2}$ and 5 . Thus, the HCF of the given numbers will be $2^{2} \times 5=20$.
36. D
37. C
38. A
39. B
40. D

## EXPLANATION

36. Answer: D Explanation: In this addition series, 1 is added to the first number; 2 is added to the second number; 3 is added to the third number; 4 is added to the fourth number; and go on
37. Answer : C Explanation: In all other figures, the two line segments are parallel to each other.
38. Answer : A Explanation:


Required distance $=A C$
$=\sqrt{8^{2}+6^{2}}$
$=\sqrt{64+36}$
$=\sqrt{100}$
$=10 \mathrm{~km}$.
39. Answer: B
40. Answer: Option D

## TAMIL:-

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

## QQQQQ

