EVERYDAY SCIENCE

1. The name of the Mars Mission of India is
   a) Mangalyan   b) Psyche   c) Zheng He   d) TEREX
2. Galvanometer is used to --------
   a) Measure potential difference   b) Detect the current and its direction
   c) Fix the magnitude of the current through a circuit   d) Measure current
3. Nucleotide composed of ------
   a) Nucleoside+Sugar   a) Cytosine+Sugar   c) Nucleoside+Phosphate   d) Cytosine+Sugar
4. The functional group of Aldehyde is
   a) -OH   b) -CHO   c) –C=0   d) –COOH
5. The gas present in the pores of soft finely stratified sedimentary rock is
   a) Shale gas   b) Gobar gas   c) Water gas   d) Oxygen gas
6. The geographical Indication Tag (GI tag) of Turmeric is
   a) Erode   b) Kodaikanal   c) Tea   d) Palakad
7. Calcium Carbide is the common adulterants of the ------
   a) Ripen Bananas   b) Milk   c) Shiny Appearance   d) Fresh Look
8. Cancer of the epithelial cells is called
   a) Leukemia   b) Sarcoma   c) Carcinoma   d) Lepoma
9. Extra copy of chromosome 21 results in
   a) Sickle cell anemia   b) Down Syndrome   c) Kline felter syndrome   d) Thalassemia
10. Corbet National Park is located at
    a) Rajasthan   b) Uttarakhand   c) Rajasthan   d)Gujarat

GENERAL STUDIES

11. The largest west flowing river of peninsular India is
    a) Mahi   b) Sabarmati   c) Narmada   d) Luni
12. Human blood grouping was discovered by
    a) Landsteiner   b) Punett   c) Correns   d) Muller
13. In the collective model of the nucleus, the shape of nuclear core is
    a) Non-Spherical   b) Spherical   c) Semi-spherical   d) Circular
14. World youth Skills day is celebrated on
    a) March, 15   b) May,15   c) August,15   d) July,15
15. Who was the author of the book "Oppressed Hindus"?
    a) M. Palaniswamy   b) R. Veeraiyan   c) P.V. Subramanian   d) M C. Rajah
16. Which moral text is exclaimed as "Velaan Vedham"?
    a) Thirukkural   b) Asarakovai   c) Naladiyaar   d) Proverbs
17. Virtual G20 digital Economy Minister Summit 2020 was organized by
    a) Saudi Arabia   b) Iran   c) Iraq   d) Kuwait
18. Where is the largest solar power project of India Located?
    a) Rajasthan   b) Karnataka   c) Andhra Pradesh   d) Gujarat
19. The account in which trading of shares in their electronic form is done is known as ____
    a) Demat Account   b) NRI Account   c) NRIO Account   d) Current Account
20. Which funds transfer system involves transfer of money from one bank to another on a "real time" basis?
    a) NEFT   b) RTGS   c) EFT   d) ECS

CURRENT AFFAIRS

21. The44th Chess Olympiadorganizedwill held in which of the following Indian State   from 28 July to 10 ugust 2022 by the FIDE ?
    a) Chennai   b) Bangalore   c) Kerala   d) Delhi
22. Which instrument did PanditShivkumar Sharma used?
    a) Sitar   b) Tabla   c) Santoor   d) Sarangi
23. Where has India's first liquid-mirror telescope started?
    a) Sikkim   b) Jammu and Kashmir   c) Himachal Pradesh   d)Uttarakhand
24. Which place set a new rainfall record of highest single day rainfall in June since 1966?
    a) Mawlinnong   b) Dawkl   c)Mawsynram   d) Khasi Hills
25. On which day is   World Environmental Day observed every year?
    a) 4th June   b) 5th June   c) 6th June   d) 5th August
26. Who is present chairman of SBI?
    a)Shri Dinesh Kumar Khara b)Rajnish Kumar c) Arundhati Bhattacharia   d) Ashwini KumarTewari
27. Which two state have the highest fertility rate in India as per the National Family Health Survey NFHS 5?
    a)UP and Bihar   b) Bihar and Meghalaya   c) Mizoram and UP   d) Bihar and Punjap
28. Who among the following has won the women's world Boxing Championships held in in Turkey , becoming the fifth Indian women to be crowned world Champion?
    a) Mary Kom   b)JamunaBoro   c) NikhatZareen   d)Simranjit Kaur

29. What is the range of Agni-4?
   a)700–1,200 km   b)2,000–3,500 km   c)3,000 – 3,500 km.   d)4,000kilometres
30. What is Agneepath scheme in army?All recruits will be hired only for
   a) 4 year period   b) 10 year period   c) 15 year period   d) 5 year period
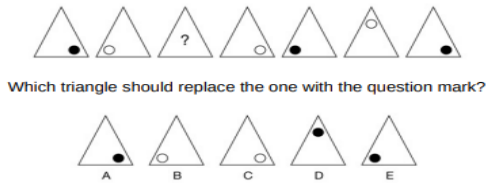
QUANTITATIVE APTITUDE

31. A and B undertake to do a piece of work for Rs.600. A alone can do it in 6 days, while B alone can do it in 8 days. With the help of C, they finish it in 3 days. Find the share of each?
   (a) 300,200,100   (b) 350, 150,100   (c) 300, 225, 75   (d) 325, 225, 50
32. Two pipes can fill a tank in 10 hours and 12 hours respectively while a third pipe empties the full tank in 20 hours. If all the three pipes operate simultaneously, in how much time will the tank be filled or   emptied.
   (a) 7 hours   (b) 7 hours 30 min   (c) 8 hours   (d) 8 hours 30 min
33. Walking at 5/6 of its usual speed, a train is 10 minutes too late. Find its usual time to cover the journey?
   (a) 50 min   (b) 40 min   (c) 30 min   (d) 20 min
34. At what rate percent per annum will a sum of money double in 16 years?
   (a) $6\frac{1}{4}\% \, p.a.$ (b) $7\frac{1}{4}\% \, p.a.$ (c) $8\frac{1}{4}\% \, p.a.$ (d) $8\frac{1}{2}\% \, p.a.$

35. The difference between the compound interest and the simple interest on a certain sum at 10% per annum for 2 years is Rs. 631. Find the sum?
   (a) Rs.62,100   (b) Rs. 65,100   (c) Rs. 64,100   (d) Rs 63,100 (e) None
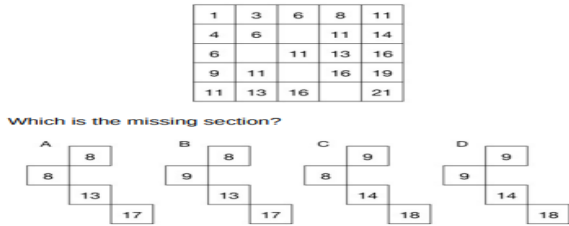
TEST OF REASONING

36. What should come next in the sequence?   2, 5, 12, 27, 58, 121, _____
   a) 238   b) 218   c) 228   d) 248

37.

Which triangle should replace the one with the question mark?

38.

Which is the missing section?

39. M, P, D, K and R are sitting around a circle facing the centre. D is sitting between M and R. K is not to the immediate left of R. Who is to the immediate right of P?
   a) M   b) D   c) R   d) M
40. Pic the odd man out
   a) Q   b) S   c) U   d) W

தமிழ்

41. தென்மொழி,தமிழ்ச்சிட்டு இதழ்களின் வாயிலாகத் தமிழுணர்வைஉலகெங்கும் பரப்பியவர் யார்?
   அ.பெருஞ்சித்திரனார்   ஆ.பாரதியார்   இ.பாரதிதாசன்   ஈ.சச்சிதானந்தன்
42. வேர்க்கடலை,மிளகாய் விதை,மாங்கொட்டை ஆகியவற்றைக் குறிக்கும் பயிர்வகை ----
   அ.குலைவகை   ஆ.மணிவகை   இ.கொழுந்துவகை   ஈ.இலைவகை
43. 'புதியஉரைநடை' என்னும் நூலுக்காகசாகித்தியஅகாதெமிவிருதுபெற்றஎழுத்தாளர்?
   அ.நமச்சிவாயர்   ஆ.சுந்தரகவிராசர்   இ.எழில்முதல்வன்   ஈ.சண்முகசுந்தரம்
44. 'நீடுதுயில் நீக்கப் பாடிவந்தநிலா' என்றபாராட்டுமொழிக்குரியவர் யார்?
   அ.பிச்சமூர்த்தி   ஆ.கண்ணதாசன்   இ.வைரமுத்து   ஈ.பாரதியார்
45. சீனாவில் உள்ளசிவன்கோயில் யாருடையஆட்சிக்காலத்தில் கட்டப்பெற்றது?
   அ.குப்லாய்கான்   ஆ.பெப்பர்   இ.ஸ்டீபன்ஹாக்கிங்   ஈ.ஜான்வீலர்
46. 'காலத்தின் சுருக்கமானவரலாறு' என்ற நூலின் ஆசிரியர் யார்?
   அ.கலீலியோ ஆ.ஸ்டீபன்ஹாக்கிங் இ.ஜன்ஸ்டின் ஈ.ஜான்வீலர்
47. "கத்தும் குயிலோசை-சற்றேவந்து காதிற் படவேணும்"-இதில் இடம் பெற்றுள்ளவழுவமைதியினைக் கண்டறிக.
   அ. இடவழுவமைதி   ஆ. திணைவழுவமைதி   இ.மரபுவழுவமைதி   ஈ. காலவழுவமைதி
48. நமதுநாட்டின் நடுவண் முதன்மைஅமைச்சராக இருந்தமாண்புமிகுவாஜ்பாய் அவர்களின் கைகளால் பெண் ஆற்றல் விருதுபெற்றவர் யார்?
   அ.வளர்மதி   ஆ.(முகில்நாச்சி   இ.அன்பரசி   ஈ.சின்னப்பிள்ளை
49. ஐசுசுஐபுபுவுஐஜுமூ- இணையானதமிழ்ச்சொல் அறிக.
   அ.பாசனம்   ஆ.வணிகக்குழு   இ.நிலப்பகுதி   ஈ.துணைத்தூதரகம்
50. வுநுஜீநுஎுவு - இணையானதமிழ்ச்சொல் அறிக.
   அ.சூறாவளி   ஆ.பெருங்காற்று   இ.நிலக்காற்று   ஈ.கடற்காற்று

@@@@@@@@@@@
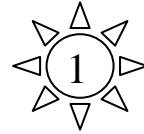
EVERYDAY SCIENCE 1.A   2.B   3.C   4.B   5.A   6.A   7.A   8.C   9.B   10.B

GENERAL STUDIES   11.C 12.A 13.A   14.D   15.D   16.C   17.A   18.A   19.A   20.B

CURRENT AFFAIRS   21.A 22.C 23.D   24.C   25.B   26.A   27.B   28.C   29.D   30.A

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

31. C   A,B & C's one day work = 1/3   A's one day work =1/6   B's one day work =1/8
          Hence C's one day work = (A, B & C's one day work) – (A's one day work + B's
          one day work)

$$= \left(\frac{1}{3}\right) - \left(\frac{1}{6} + \frac{1}{8}\right) = \frac{8-(4+3)}{24} = \frac{1}{24}.$$

          Then, A : B : C = Ratio of their one day work = $\frac{1}{6} : \frac{1}{8} : \frac{1}{24}$ =4:3:1

          Therefore,   A's share =Rs. $\left(600\ X\ \frac{4}{4+3+1}\right) = \left(600\ X\ \frac{4}{8}\right) =$ Rs. 300.

                    B's share =Rs. $\left(600\ X\ \frac{3}{4+3+1}\right) = \left(600\ X\ \frac{3}{8}\right) =$ Rs. 225.

                    C's share =Rs. $\left(600\ X\ \frac{1}{4+3+1}\right) = \left(600\ X\ \frac{1}{8}\right) =$ Rs. 75.

     Answer is option **(c) 300, 225, 75**.

32. B   First pipe filled in 1 hour = 1/10   Second pipe filled in 1 hour = 1/12
     Third pipe emptied in 1 hour = -1/20

          Net part filled/emptied in 1 hour = $\left(\frac{1}{10} + \frac{1}{12} - \frac{1}{20}\right) = \left(\frac{6+5-3}{60}\right) = \frac{8}{60} = \frac{2}{15}$ (+ve)

          Hence, the tank will be full in 15/2 hours = 7 hours 30 min.

33. A   New speed = 5/6 of the usual speed   New time taken = 6/5 of the usual time
          Then, (6/5of the usual time) – (usual time) = 10 min   So, (6/5-1) of usual time = 10 min
          1/5of the usual time = 10 min   Hence, usual time = 10 X 5 = 50 min

34. A   Let principal = P. Then, S.I = P (since double the principal) and T = 16 yrs.

          From, S.I = PNR/100 ; R(Rate of interest) = $\left(\frac{100X\ P}{P\ X\ 16}\right)\% = \frac{100}{16} = \frac{25}{4} = 6\frac{1}{4}\%\ p.a.$

35. D   Let the sum be Rs. x.

          Then,   S.I = $\left(\frac{x\ X\ 10\ X\ 2}{100}\right) = \frac{x}{5}$ and,

          C.I = $x\left(1 + \frac{10}{100}\right)^2 - x = x\left(\frac{100+10}{100}\right)^2 - x = x\left(\frac{110}{100}\right)^2 - x = x\left(\left(\frac{11}{10} X \frac{11}{10}\right) - 1\right)$

          $= x\left(\left(\frac{121}{100}\right) - 1\right) = x\left(\frac{121-100}{100}\right) = \frac{21x}{100}.$

          Hence, C.I – S.I = $\frac{21x}{100} - \frac{x}{5} = \frac{(21-20)x}{100} = \frac{x}{100}.$

          Therefore, $\frac{x}{100} = 631 \Leftrightarrow$ x= 63100.

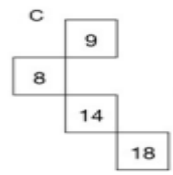**TEST OF REASONING :**   36.D   37.C   38.C   39.C   40.C
36. d) 248 [Ans: ×2+1, ×2+2, ×2+3, ×2+4, ×2+5, ×2+6]
37. c) The dot visits a different corner at each stage working clockwise and alternates black/white.

38. c) Looking across, the numbers progress +2, +3, +2, +3. Looking down, they progress +3, +2, +3, +2.

39. c) R
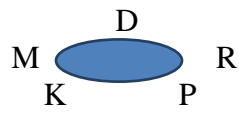
40. c) U.
Other three alphabets correspond to prime numbers in the alphabet series:
A-1, B-2, C-3 in the series…. Q-17, S-19, U-21, W-23, where 17, 19 and 23 are prime numbers but 21 (with respect to alphabet 'Ú') is not a prime number.

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. What is the difference between the mass number of Parent nucleus and Daughter nucleus in an alpha-decay process?
   a) 2   b) 4   c) 6   d) 8

2. Which of the following non-metal has an isotope which can be used to detect secret nuclear fuel reprocessing facilities?
   a) Selenium   b) Tellurium   c) Neon   d) Krypton

3. Electromagnetic radiation is emitted by
   a) X-ray   b) Electrons   c) Ultrasonic   d) Protons

4. Which colour deviates least when passing through a Prism
   a) Blue   b) Green   c) Yellow   d) Red

5. Who is the first person to define speed
   a) Galileo   b) Newton   c) Kepler   d) Ptolemy

6. The purpose of Genetically modifying brinjal and cotton as Bt-Brinjal, Bt-Cotton was to make them.
   a) Drought resistant   b) High yielding   c) Pest resistant   d) Short-duration crops

7. Which of the following are infected by foot and mouth disease?
   a) Cats   b) Cattle   c) Dogs   d) Poultry

8. Which one of the following is a pigment?
   a) Albumin   b) Elastin   c) Keratin   d) Melanin

9. Centre for DNA Finger printing of India is located at
   a) Pune   b) Hyderabad   c) Mumbai   d) Udaipur

10. If all the plants and trees vanish from the earth, the gas which will decrease.
    a) Carbon dioxide   b) Nitrogen   c) Water vapour   d) Oxygen

GENERAL STUDIES

11. The river which is said to be the lifeline of Sikkim is ____
    (A) Manas   (B) Lohit   (C) Sankosh   (D) Tista

12. The planet which has the fastest orbital motion is ____
    (A) Mercury   (B) Venus   (C) Earth   (D) Mars

13. The mountain which is known as 'horst' is ____
    (A) Fold mountain   (B) Block mountain   (C) Volcanic mountain   (D) Residual mountain

14. Largest area in the ocean floor is occupied by ____
    (A) Continental shelf   (B) Continental slope   (C) Deep Sea plain   (D) Ocean deeps

15. When was the state of Nagaland-formed?
    (A) 1961   (B) 1963   (C) 1965   (D) 1967

16. Who has been appointed as the first male member of National commission for women?
    (A) Alok Rawat   (B) Bilal Nazki   (C) Reva Khetrapal   (D) Krishna Sahu

17. When was the first World Antibiotic Awareness week observed?
    (A) 16 November to 22 November 2015   (B) 5 November to 11 November 2015
    (C) 22 October to 28 October 2015   (D) 18 October to 24 October 2015

18. The first Indian woman who conquered the 7077 m high Mount Kun of the Himalayas is ____
    (A) KS Sudhi   (B) Rini Mukkath   (C) G.R. Radhika   (D) Soumya Das

19. When was supreme court of India inaugurated?
    (A) Jan 26, 1950   (B) Jan 28, 1950   (C) Feb 28, 1950   (D) April 26, 1950

20. Find the next alphabet in the sequence B, E, I, N,?
    (A) U   B) T   (B) V   (D) S

CURRENT AFFAIRS

21. Which state held the most number of sittings of the State Assembly in 2021?
    [A] Tamil Nadu   [B] Kerala   [C] Odisha   [D] Karnataka

22. 'Revamped Distribution Sector Scheme' which was recently launched, is implemented by which Union Ministry?
    [A] Union Ministry of Power   [B] Union Ministry of Consumer Affairs and Food Distribution
    [C] Union Ministry of New and Renewable Energy   [D] Union Ministry of Agriculture and Farmers Welfare

23. Logistics Data Bank (LDB) Project, which was seen in the news, is associated with which Ministry?
    [A] Ministry of Road Transport and Highways   [B] Ministry of Commerce and Industry
    [C] Ministry of MSME   [D] Ministry of Heavy Industries

24. As per the Election Commission, youngsters attaining how many years can apply in advance for electoral cards?
    [A] 15   [B] 16   [C] 17   [D] 18

25. Which institution launched the 'Good for You, Good for the Planet' campaign?
    [A] UNEP   [B] WWF   [C] IMF   [D] IEA

26. Which city was the host of the first 'All India District Legal Services Authorities Meet'?
    [A] New Delhi   [B] Varanasi   [C] Ahmadabad   [D] Pune

27. 'The Lulo Rose', a rare 170-carat pink rough diamond was discovered wt which country?
    [A] USA   [B] Angola   [C] Japan   [D] New Zealand

28. Which institution launched 'Face recognition facility' for pensioners to submit their life certificate?

[A] LIC   [B] PFRDA   [C] EPFO   [D] IRDAI

29. Which country has announced to launch a new joint international semiconductor research hub with Japan?

[A] USA   [B] Australia   [C] India   [D] Germany

30. 'Chabahar Port', which was seen in the news, is located in which country?

[A] Afghanistan   [B] Nepal   [C] Iran   [D] Kazakhstan

QUANTITATIVE APTITUDE

31. The average age of a group of 6 boys is 19. If the new average age after a boy joins the group is 21.28, find the age of new boy.

A. Approx 23   B. Approx 35   C. Approx 32   D. Approx 45

32. An accurate clock indicates 8 O' clock in the morning. Through how many degrees the hour hand turns when the clock indicates 3 O' clock in the afternoon?

A. 210°   B. 200°   C. 190°   D. 185°

33. In a 500 m race, the ratio of the speeds of two participants A and B is 3: 4. A has a start of 140 m. Then, A wins by

A. 60 m   B. 40 m   C.20 m   D. 10 m

34. The area of a rectangle and square are equal. The side of the square is 5 cm and the smaller side of the rectangle is half that of the square. The length of the other side of the rectangle would be

A. 5 cm   B. 8 cm   C. 12 cm   D. 10 cm

35. 1200 boys and 800 girls appeared in an examination. If 60% of the boys and 40% of the girls passed the examination, what is the percentage of candidates who failed in the examination?

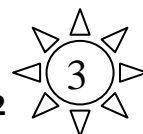A. 48 %   B.52 %   C. 45 %   D. 42 %

TEST OF REASONING

36. Look at this series: 80, 10, 70, 15, 60, … What number should come next?

A. 20   B. 25   C. 30   D. 50

37. Paw : Cat :: Hoof : ?

A. Lamb   B. Horse   C. Elephant   D. Tiger

38. A is B's sister. C is B's mother. D is C's father. E is D's mother. Then, how is A related to D?

A. Grandfater   B. Grandmother   C. Daughter   D. Granddaughter

39. Arrange these words in alphabetical order and tick the one that comes last

1. Abandon   2. Actuate   3. Accumulate   4. Acquit   5. Achieve

A. Actuate   B. Accumulate   C. Acquit   D. Achieve

40. What letter will come in place of question mark ?

L   J   H

J   P   D

P   ?   E

A. K   B. L   C. P   D. I

தமிழ்

41. திருக்கடைக் காப்பு -பாடியவர் யார்?

அ)ஞானசம்பந்தர்   ஆ)மருள்நீக்கியார்   இ)தென்னவன்பிரம்மராயன்   ஈ)ஆரூர்நம்பி

42. தெய்வநூல் என்று அழைக்கப்படுவது யாது?

அ)திருமந்திரம்   ஆ)திருவாசகம்   இ)திருக்குறள்   ஈ)திருத்தொண்டர்புராணம்

43. வாக்குண்டாம் நூலில் உள்ள பாடல்கள் எத்தனை?

அ)91   ஆ)109   இ)30   ஈ)103

44. மணிமேகலை எப்பாவாவானது?

அ)நிலைமண்டில ஆசிரியம்   ஆ)பஃறொடை வெண்பா   இ)கலிவிருத்தம்   ஈ)வஞ்சித்துறை

45 . தமிழின் முதல் அகராதியை எழுதியவர் யார்?

அ)வீரமாமுனிவர்   ஆ)ராட்லர்   இ)சீகன்பால்க்   ஈ)பெர்சிவல்

46. சின்னச்சீறா எழுதியவர் யார்?

அ)அகமது மறைக்காயர்   ஆ)குணங்குடி மஸ்தான்   இ)உமறுப்புலவர்   ஈ)சேககணாப்புலவர்

47. கலைஞர்கருணாநிதி எழுதாத புதினம் எது?

அ)ரோமாபுரிப்பாண்டியன்   ஆ)பொன்னர்சங்கர்   இ)தென்பாண்டிச்சங்கம்   ஈ)காவல்கோட்டம்

48. பாஞ்சாலி சபதத்தில் உள்ள சருக்கங்கள் எத்தனை?

அ)5   ஆ)2   இ)4   ஈ)3

49. கோமல் சாமிநாதன் எழுதிய நாடகம் எது?

அ)சர்வர்சுந்தரம்   ஆ)முகமதுபின்துக்ளக்   இ)ஒர்இரவு   ஈ)தண்ணீர்தண்ணீர்

50. சோழவந்தானும்தென்கரையும் -இலக்கண்குறிப்பு தருக.

அ)உம்மைத்தொகை   ஆ)எண்ணும்மை   இ)வேற்றுமைத்தொகை   ஈ)பண்புத்தொகை

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

GENERAL STUDIES 11.D   12.A   13.B   14.C   15.A   16.A   17.A   18.C   19.B   20.B

CURRENT AFFAIRS 21.B   22.A   23.B   24.C   25.B   26.A   27.B   28.C   29.A   30.C

21) As per the recent study of the think tank PRS Legislative Research (PRS), Kerala held the most number of sittings of the State Assembly in 2021 at 61 days. Between 2016 and 2019, it remained at the top with an average of 53 days. Kerala is followed by Odisha with 43 sitting days, Karnataka with 40 days and Tamil Nadu with 34 days.

22) The Prime Minister launched the Union Power Ministry's 'Revamped Distribution Sector Scheme'. It aims to help DISCOMs improve their operational efficiencies and financial sustainability. The Prime Minister laid the foundation stone of various green energy projects of NTPC worth over Rs 5200 crore. He also launched the 'National Solar rooftop portal'

23) NLDSL-NICDC Logistics Data Bank (LDB Project) has achieved a milestone of handling 50 million EXIM containers. Union Commerce and Industry Minister lauded the NICDC Logistics Data Services for the achievement. NICDC stands for National Industrial Corridor Development Corporation. LDB handles 100% per cent of India's EXIM container volume. It uses RFID technology through Internet of Things (IoT), Big Data and Cloud-based solution for real-time tracking of EXIM container movement.

24) As per the Election Commission of India (ECI), those above the age of 17 can now apply in advance for enrolment in the voters' list.The electoral roll will be updated every quarter. Earlier, afrer the recommendations of ECI, the Law Ministry amended the Representation of the People Act to provide for four qualifying dates: January 1, April 1, July 1 and October 1 as the eligibility for youngsters to register in electoral rolls.

25) The WWF has launched the 'Good for You, Good for the Planet' campaign to guide people towards eating a planet friendly diet. The campaign's long-term aim is to encourage people to become conscious of their food choices every day. This year's Earth Overshoot Day was observed July 28. As per a WWF study, food waste amounts to 10 per cent of GHG.

26) The Prime Minister Narendra Modi addressed the inaugural session of the First All India District Legal Services Authorities (DLSAs) Meet.The first-ever national level meet of DLSAs is being organised at Vigyan Bhawan by National Legal Services Authority (NALSA). The meeting will have discussions on creation of an integrated procedure to synchronise DLSAs. There are a total of 676 DLSAs in the country.

27) A rare 170-carat pink rough diamond weighing 34 grams has been discovered at Lucapa's Lulo Mine in Angola. Named the 'Lulo Rose', it is considered to be the largest pink diamond discovered in the last 300 years.In 2016, a mining operation yielded a 404-carat white stone named the '4th February Stone'. It was the largest ever diamond recovered in Angola.

28) Employees' Provident Fund Organisation (EPFO) introduced a new facility for pensioners to submit their digital life certificate.Under the new 'Face recognition facility', pensioners can now submit their digital life certificate on the EPFO portal from anywhere in the country. Union Minister of Labour and Employment Bhupender Yadav launched the face authentication technology.

29) The United States and Japan have decided to launch a new joint international semiconductor research hub.The U.S and Japanese economic talks was recently held to work on joint research for next-generation semiconductors and to establish a secure source of the vital components.

30) The Chabahar Port is a strategic port located in Iran is the commercial transit centre for the Central Asian region. 'Chabahar Day' is celebrated to mark the beginning of International North South Transport Corridor (INSTC) – an Indian vision to economise movement of cargo between India and Central Asia. On the occasion of 'Chabahar Day', Union Ports, Shipping & Waterways Ministry along with the Indian Ports Global Ltd. (IPGL) which was formed to participate in Chabahar development project, organized a conference in Mumbai.

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

31. B Use Formula: Age of new body = New average + Number of boys initially * increase in average
$= 21.28 + 6*2.28 = 21.28 + 13.68 = 34.96$

32. A There are 7 hours between 8 O' clock in the morning and 3 O' clock in the afternoon.
     Now, angle traced by the hour hand in 12 hours = 360°

$$\frac{360}{12} * 7 = 210°$$

∴ Angle traced by the hour hand in 7 hours =

33. C To reach the winning point, A has to cover a distance of (500 - 140) = 360 m
   According to the question When A covers 3 m, then B covers 4 m And when A covers 360 m, then B covers

$$\left(\frac{4}{3} \times 360\right) = 480 \text{ m}$$

Thus, when A reaches the winning point, B covers 480 m and remains 20 m behind. Therefore A wins from B by 20 m.

34. D Side of Square = 5 cm, length of one side of rectangle = 5/2 = 2.5 cm   Let the length of the other side of the rectangle = B
As per the question: Area of rectangle = Area of square, Length x Breadth = Side x Side
      2.5 * B = 5 * 5,   B = 25/2.5,   B = 10 cm

35. A Number of students failed = 40 % of boys (1200) + 60 % of girls (800) = (40/100) x 1200 + (60/100) x 800
    = 480 + 480 = 960, Total number of students = 1200 + 800 = 2000
     ∴ Percentage of candidates failed =(Number of students failed) / (Total number of students) x 100 = (960/2000) x100 = 48 %

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

36. A This is an alternating addition and subtraction series. In the first pattern, 10 is subtracted from each number to arrive at the next. In the second, 5 is added to each number to arrive at the next.

37. B Horse. Cat's feet are called paws and horse's are called hoofs.

38. D A is the sister of B and B is the daughter of C. So, A is the daughter of C. Also, D is the father of C. So, A is the granddaughter of D.

39. A First letters are common. Second letters are:b, c, c, c, c. One of the four words having c is the last word. Let us see the third letters now ,there are: t, c, q, h. Clearly t is the last. Hence Actuate is the last word

40. D Sum of place value in a row is 30. So the letter which comes in place of '?' is 'I'.

தமிழ் விடைகள் : 41.அ)ஞானசம்பந்தர்   42.இ)திருக்குறள்   43.இ)30   44.அ)நிலைமண்டில ஆசிரியம்
       45.அ)வீரமாமுனிவர்   46.அ)அகமது மறைக்காயர்   47.ஈ)காவல்கோட்டம்   48.அ)5
       49.ஈ)தண்ணீர்தண்ணீர்   50.ஆ)எண்ணும்மை

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EVERYDAY SCIENCE

1. Which among the following diseases is also known as "Pink Eye"?
   a) Conjunctivitis   b) Myopia   c) Astigmatism   d) Presbyopia
2. Which gas is used in soft drinks?
   a) Oxygen   b) Carbon dioxide   c) nitrogen   d) halogen
3. Saurology is the study of _____
   a) Mosquitoes   b) Snake   c) Lizards   d) Cockroach
4. Which type of iron ore has magnetic properties?
   a) Magnetite   b) Hematite   c) Limonite   d) Siderite
5. Rainbow is produced when sunlight falls on drops of rain. Which of the following physical phenomena are responsible for this?   1. Dispersion 2. Refraction   3. Internal reflection Select the correct Solution using the codes given below.
   a) 1 and 2 only   b) 2 and 3 only   c) 1 and 3 only   d) 1, 2 and 3
6. Who invented the writing system for the blind to read?
   a) Madame Curie   b) Einstein   c) Louis Braille   d) Archimedes
7. clove, the commonly used spice is obtained from the
   a) fruit   b) flower bud   c) stem   d) root
8. The light colour part in an annual ring is
   a) Heartwood   b) latewood   c) early wood   d) sapwood
9. The mosquito repellent that is used in the homes in the form of a coil, liquids, etc. are -
   a) Sedatives   b) Pesticide   c) Insecticide   d)Fertilizers
10. The ozone layer is present in -
   a) Mesosphere   b) Thermosphere   c) Stratosphere   d) Ionosphere

GENERAL STUDIES

11. The Global Gender Gap Index was first introduced by   a)IMF   b) IBRD   c) WTO   d) WEF
12. On 14th January, 2022 which one of the following ministries has organised a Global Surya Namaskar Demonstration Programme?
   a) The Ministry of Culture   b) The Ministry of AYUSH
   c) The Ministry of Health and Family Welfare   d) The Ministry of Tourism
13. If there is an increase in the external commercial borrowings in India. What will be the impact on the external debt of the country?
   a) Increase   b) Decrease   c) Remain unaffected   d) Either increase or decrease
14. According to the Forest Survey Report 2021 area wise which one of the following states has the largest forest cover in India?
   a) Odisha   b) Madhya Pradesh   c) Arunachala Pradesh   d) Chhattisgarh
15. Which among the following is the main measuring scale to map the economic growth of a country?
   a) Gross National Purchases   b) Gross Domestic Product
   c) Human Development Index   d) Gross National Happiness
16. The Idea of planning in Independent India was drawn from
   a) Bombay Plan   b) The demand made by peasants
   c) The demand made by workers Unions   d) The Gandhian vision of India's
17. In a first, Indian is to export BrahMos missile to   a) Bhutan   b) Philippines c) Maldives   d) Nepal
18. Which one of the following plants has unisexual flowers?
   a)Papaya   b) Hibiscus   c) Mustard   d) Sunflower
19. Which one of the following is an element of capital account in the Balance of Payments?
   a) Income from foreign tourists   b) Foreign direct investments
   c) Royalties from patents   d) Export income
20. Which one of the following is a primary function of commercial banks?
   a) Issuing letters of credit   b) Supplying business information
   c) Discounting of bills   d) Accepting deposits and providing loans

CURRENT AFFAIRS

21. The Ransthamb that was recently in the news is in which state?
   [A] Bihar   [B] Maharashtra   [C] Meghalaya   [D] Uttar Pradesh
22. The birth anniversary of which social reformer was celebrated on January 3?
   [A] Narayana Guru   [B] Vinoba Bhave   [C] Pandita Ramabhai   [D] Savitribai Phule
23. Which of these festivals of other parts of India does not coincide with Makar Sankranti celebrated in North India in January?
   [A] Pedda Padanga   [B] Magh Bihu   [C] Thai Pongal   [D] Vishu
24. The Vice President of India is to inaugurate the Centre of Excellence for studies of which Indian language, in Nellore?
   [A] Kannada   [B] Telugu   [C] Tamil   [D] Malayalam
25. The Indian Prime Minister recently participated in the 50th anniversary of the 'Thuglak' magazine of which language?
   [A] Telugu   [B] Kannada   [C] Tamil   [D] Malayalam

26. When is the national Tourism day celebrated across the country?
 [A] January 23 [B] January 24 [C] January 25 [D] January 26
27. Which city plays host to the annual event 'Bharat Parv, 2020' which celebrates the spirit of India?
 [A] Mumbai [B] New Delhi [C] Ahmedabad [D] Jaipur
28. Which Hindi word is chosen as the 'Oxford Hindi Word of 2019' by the Oxford University Press?
 [A] Samriddhi [B] Samvidhaan [C] Sampriti [D] Sammaan
29. The Belum Caves festival was recently organized in which state?
 [A] Maharashtra [B] Andhra Pradesh [C] Karnataka [D] Tamil Nadu
30. Which film recently won the Oscar for best picture, which is also the first non- English film to win the award?
 [A] Les Misérables [B] Irishman [C] Parasite [D] Border

QUANTITATIVE APTITUDE

31. The population of a village increase at the rate of 7% every year. If the present population is 90,000. The Population after two years is_____?
 a) 96300 b) 103000 c) 100000 d)103041.
32. 18, a, b, -3 are in arithmetic progress, then what is the value of (a+b)=?
 a) 7 b) 11 c) 15 d) 21.
33. How many times can you subtract 10 from 100?
 a) 1 b) 100 c) 10 d) 9.
34. 10 formers will plough the land in 21 days. In how many days 14 formers will plough the same land?
 a) 14 days b) 15 days c) 16 days d) 17 days
35. 94 is divided into parts in such a way that the fifth part of the first and the eighth part of the second are in the ratio 3:4. Then the first part is ____?
 a) 28 b) 30 c) 36 d) 40

TEST OF REASONING

36. Cup is to coffee as bowl is to
 (a) Soup (b)Dish (c) spoon (d)food
37. B_2CD, _____, BCD_4, B_5CD, BC_6D
 (a) B_2C_2D (b)BC_3D (c) B_2C_3D (d) BCD_7
38. Choose the word that is a necessary part of the underlined word. Harvest
 (a) Autumn (b) Stockpile (c) Tractor (d) Crop
39. Here are some words translated from an artificial language.
 lelibroon means yellow hat plekafroti means flower garden frotimix means garden salad
 Which word could mean "yellow flower"?
 (a) lelifroti (b)plekabroon (c)lelipleka (d) frotibroon
40. Find out how the key figure (X) look will like after rotation.
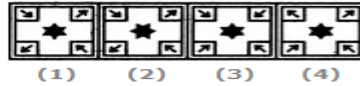
 (a) 1 (b) 2 (c) 3 (d) 4

தமிழ்

41. பொருத்தமான அருஞ்சொற்பொருள் தேர்க.
 அ.வெறுக்கை – நெய்பவர் ஆ.பாசவர் - வெற்றிலை விற்போர்
 இ.ஓசுநர் - செல்வம் ஈ.காருகர் - எண்ணெய் விற்போர்
42. ரோமானியருக்கும், தமிழருக்கும் இடையே நடந்த வணிகத் தொடர்பை உறுதிப்படுத்தும் அகழாய்வு நடந்த இடம்
 அ.அரிக்கமேடு ஆ.பல்லாவரம் இ.ஆதிச்சநல்லூர் ஈ.அழகன்குளம்
43. 'நந்தவனத்தில் ஓர் ஆண்டி – அவன் நாலாறு மாதமாய்க் குயவனை வேண்டி'
 எனும் பாடலைப் பாடிய சித்தர் யார்?
 அ.பாம்பாட்டிச்சித்தர் ஆ.கடுவெளிச்சித்தர் இ.பட்டினத்தடிகள் ஈ.திருமூலர்
44. நூல் - அடைமொழிப்பெயர்கள்
 அ. பதிற்றுப்பத்து - 1.பொருட்கலவை
 ஆ. பரிபாடல் - 2. நெடுந்தொகை
 இ. கலித்தொகை - 3. உவமைக்களஞ்சியம்
 ஈ. அகநானூறு - 4. இரும்புக்கடலை
 உ. குறுந்தொகை - 5. முத்தமிழ்நூல்
 அ.1,4,3,5,2 ஆ.1,4,5,2,3 இ.4,1,5,2,3 ஈ.4,1,5,3,2
45. ஸ்ரீ, ஸ்ரீமதி மற்றும் குமாரி போன்ற சமஸ்கிருத வார்த்தைகளை திரு, திருமதி மற்றும் செல்வி என தமிழாக்கம் செய்தவர்?
 அ.கலைஞர் கருணாநிதி ஆ. தந்தை பெரியார் இ.அறிஞர் அண்ணா ஈ.தேவநேயப்பாவாணர்
46. பொருந்தாச் சொல்லைக் கண்டறிக.
 அ. ஆழி - சக்கரம் ஆ. சார்ங்கம் - வில் இ. தளை - விலங்கு ஈ. மிடிமை - வளமை
47. கட்டளைத்தொடர் அல்லாத ஒன்றைத் கண்டறிக.
 அ.அண்ணனோடு போ ஆ. கூடுகட்டு இ. தமிழ்ப்படி ஈ.அரசு ஆணை பிறப்பித்தது
48. நடனக்கலையில் தன்னை ஈடுபடுத்திக்கொண்ட திருநங்கை
 அ.பாலசரஸ்வதி ஆ.வைஜெயந்திமாலா இ.தஞ்சைசிக்டப்பா ஈ.நர்த்தகி நடராஜ்
49. "வாணிகம் செய்வார்க்கு வாணிகம் பேணிப் பிறவும் தமபோல் செயின்"–திருக்குறள் உணர்த்தும் கருத்து.
 அ.ஏற்றுமதி ஆ.ஏமாற்றுதல் இ.நேர்மை ஈ.முயற்சியின்மை
50. தேசிய நூலக நாளைத் தேர்வு செய்க.
 அ.ஆகஸ்ட்ஒன்பது ஆ.ஆகஸ்ட்பத்தொன்புத இ.ஆகஸ்ட் ஒன்று ஈ.டிசம்பர் பதினைந்து

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ANSWERS: GENERAL KNOWLEDGE

(13-08-2022)

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

GENERAL STUDIES 11.D 12.B 13.A 14.B 15.B 16.A 17.B 18.A 19.B 20.D

CURRENT AFFAIRS 21.B 22.D 23.D 24.B 25.C 26.C 27.B 28.B 29.B 30.C

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

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

36. (a) 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.

37. (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.

38. (d) To harvest something, one must have a crop, which is the essential element for this item. Autumn (choice a) is not the only time crops are harvested. There may not be enough of a crop to stockpile (choice b), and you can harvest crops without a tractor (choice c).

39. (c) Leli means yellow; broon means hat; pleka means flower; froti means garden; mix means salad. Therefore, lelipleka means yellow flower.

40 (b) **2**

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

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EVERYDAY SCIENCE

1. Which two elements are combined to form candles?
   [A] Paraffin Wax and Stearic Acid   [B] Bees Wax and Stearic Acid
   [C] Higher Fat Acids and Stearic Acid   [D] Bees Wax and Paraffin Wax
2. What is the common name of Sodium Bicarborate?
   [A] Washing Powder   [B] Plaster of Paris   [C] Fly Ash   [D] Baking Soda
3. The inablity of a body to change its state of rest or motion is known as:
   [A] Force   [B] Momentum   [C] Displacement   [D] Inertia
4. Ohm is a unit of measuring _____?
   [A] Resistance   [B] Voltage   [C] Current   [D] None of the above
5. From which part, Coconut coir is obtained?
   [A] Epicarp   [B] Mesocarp   [C] Endocarp   [D] Seed
6. Which of the following plant group requires both land and water to complete its life cycle?
   [A] Tracheophyta   [B] Pteridophyta   [C] Thallophyta   [D] Bryophyta
7. Which among the following virus is also called as "Hit & Hide" Virus?
   [A] RSV Virus (respiratory syncytial virus)   [B] Dengue virus   [C] Influenza virus   [D] HIV virus
8. Which of the following diseases has been eradicated worldwide?
   [A] Smallpox   [B] Plague   [C] Chickenpox   [D] Dracunculiasis
9. Which among the following can be called an electronic check ?
   [A] Debit card   [B] Smart card   [C] Credit card   [D] None of the above
10. Which among the following is correct about 4GL?
    [A] A computer brand   [B] A software brand   [C] A software program [D] A programming language

GENERAL STUDIES

11. "The Cultural Development is characterised by intellectual, aesthetic and spiritual attainments" Who said the above statement?
    A) J.S.Mill   B) S.M.Fairchild   C) Max weber   D) Tansen
12. Dunkel proposal was related to
    A) GATT B) UNO   C) IMF   D) IBRD
13. Tamil Nadu is a major producer of
    A) Sunflower   B) Onion   C) Cotton   D) Sugarcane
14. Tamil Nadu Housing Board and Tamil Nadu Urban Habitat Development Board (TNUHDB) were created in
    A) 1961 and 1970   B) 1951 and 1960   C) 1970 and 1960   D) 1955 and 1950
15. Which Constitutional Amendment inserted Article 43 B for promotion of Cooperative Societies?
    A) 42nd Amendment, 1976   B) 44nd Amendment, 1978   C) 86nd Amendment, 2002   D)97nd Amendment, 2011
16. Justice. D.Murugesan Committee has been constituted in 2021 to look into the matter of
    A) Reservation for Government School Students in Tamil Nadu Police Service
    B) Reservation in Public Sector Units
    C) Enrolment ratio of Government School Students in Professional Courses   D) NEET Examination
17. Pradhan Mantri Gram SadakYojana (PMGSY) is primarily
    A) Rural Water Supply Programme   B) Rural Employment Generation Programme
    C) Rural Roads Development Programme   D) Rural Health Programme
18. Which of the following known as complete fertilizer?
    A) Nitrogenous fertilizer   B) Potash fertilizer.   C) NPK Fertilizer   D) NP fertilizer
19. Which menu option is used to add Header and Footer in a document?
    A) File   B) Review   C) References   D) Insert
20. Which country is the host of FIFA World Cup 2022?
    A) New Zealand   B) UK   C) Qatar   D) South Africa

CURRENT AFFAIRS

21. Which Union Ministry launched the 'SMILE-75 Initiative'?
    [A] Ministry of Labour and Employment   [B] Ministry of Social Justice and Empowerment
    [C] Ministry of Home Affairs   [D] Ministry of Health and Family Welfare
22. Which country hosted the bilateral air exercise named 'Udarashakti'?
    [A] Japan   [B] Bangladesh   [C] Malaysia   [D] UAE
23. What is the Consumer Price Index (CPI)-based inflation recorded in July 2022?
    [A] 4.71 %   [B] 5.71 %   [C] 6.71 %   [D] 7.71 %

24. Which Union Ministry recently organised the 'DST Start-up Utsav'?
[A] Ministry of MSME [B] Ministry of Commerce and Industry
[C] Ministry of Science and Technology [D] Ministry of Labour and Employment
25. Agasthyamalai elephant reserve, which was notified recently, is located in which state?
[A] Kerala [B] Tamil Nadu [C] Karnataka [D] Telangana
26. 'Yudh Abhyas' is a military exercise held between India and which country?
[A] Japan [B] USA [C] Australia [D] France
27. Which country conducted its largest-ever military exercises around Taiwan?
[A] USA [B] China [C] Israel [D] Russia
28. Which organisation test-fired indigenously developed laser-guided ATGMs?
[A] HAL [B] DRDO [C] BEL [D] BHEL
29. Which state launched the 'Chief Minister Equal Education Relief, Assistance and Grant (Cheerag)' scheme?
[A] Telangana [B] Andhra Pradesh [C] Haryana [D] Odisha
30. Which is the first bank in India to list its Payment Gateway platform on the income tax department's TIN 2.0 platform?
[A] State Bank of India [B] Federal Bank [C] Punjab National Bank [D] Axis Bank

QUANTITATIVE APTITUDE

31. Find the odd man out 396, 462, 572, 427, 671, 264
a)396 b)427 c)671 d)264
32. Find the odd man out 16, 25, 36, 72, 144, 196, 225
a)36 b)72 c)196 d)225
33. Find out the wrong number in the given sequence of numbers 22, 33, 66, 99, 121, 279, 594
a) 33 b) 121 c) 279 d) 594
34. Insert the missing number 5, 10, 13, 26, 29, 58, 61, (....)
a)122 b)64 c)125 d)128
35. The sum of first five prime numbers is
a)11 b)18 c)26 d)28

TEST OF REASONING

36. Number should come next?
A. 20 B. 25 C. 30 D. 50
37. Which word does NOT belong with the others?
A. heading B. body C. letter D. closing
38. SCD, TEF, UGH, ____, WKL
A. CMN B. UJI C. VIJ D. IJT
39. Exercise is to gym as eating is to
A. food B. dieting C. fitness D. restaurant
40. Pointing at a photo, Dinesh said, "His father is the only son of my mother." The photo belongs to- :
A. Dinesh B. Dinesh's brother C. Dinesh's father D. Dinesh's son

தமிழ்

41. கீழ்க்கண்டவற்றுள் அணி இலக்கண நூல் எது?
அ)இலக்கண விளக்கம் ஆ)முத்து வீரியம் இ)சுவாமிநாதம் ஈ)தமிழ் நூல்
42. தொல்காப்பியத்திற்குச் சிறப்புப்பாயிரம் பாடியவர் யார்?
அ)இறையனார் ஆ)அறிவனார் இ)நிலந்தருவிற் பாண்டியன் ஈ)பனம்பாரனார்
43. இராவண காவியத்தில் உள்ள காண்டங்கள் எத்தனை?
அ)ஐந்து ஆ)நான்கு இ)ஆறு ஈ)மூன்று
44. இரகுவம்சம் என்ற நூலின் ஆசிரியர் யார்?
அ)அரச கேசரி ஆ)சுப்பிரமணிய ஐயர் இ)புலவர் குழந்தை ஈ)பூசலார்
45. முல்லைக்கலியில் உள்ள பாடல்களின் எண்ணிக்கை யாது?
அ)17 ஆ)36 இ)29 ஈ)35
46. தத்துவப் போதகர் என்று அழைக்கப்பட்டவர் யார்?
அ)ராபர்ட்-டி-நொபிலி ஆ)வீரமாமுனிவர் இ)சீகன் பால்க்கு ஈ)ரேனியஸ்
47. முஹியத்தின் சதகம் பாடியவர் யார்?
அ)குணங்குடி மஸ்தான் ஆ)உமறுப் புலவர் இ) சவ்வாது புலவர் ஈ)சேகனாப்புலவர்
48. மிருச்சகடிகத்தைத் தமிழில் மொழி பெயர்த்தவர் யார்?
அ)பண்டிதமணி ஆ)பெ.சுந்தரம் இ)பரிதிமாற் கலைஞர் ஈ)இலக்குமணப் பிள்ளை
49. ஆதியூர் அவதானி சரித்திரம் எழுதியவர் யார்?
அ)சேஷயங்கார் ஆ)மாயூரம் வேதநாயகம் இ)ராஜம் ஐயர் ஈ)மாதவையா
50. குக்கூ என்ற நூலை எழுதியவர் யார்?
அ)மீ.ரா ஆ)ஈரோடு தமிழன்பன் இ)அமுத பாரதி ஈ)அறிவுமதி

ANSWERS: GENERAL KNOWLEDGE   (20-08-2022)

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

GENERAL STUDIES   11.B   12.A   13.D   14.A   15.D   16.C   17.C   18.C   19.D   20.C

CURRENT AFFAIRS   21.B   22.C   23.C   24.C   25.B   26.B   27.B   28.B   29.C   30.B

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

31. B   Explanation: In each number except 427, the middle digit is the sum of other two.

32. B   Explanation: Each of the numbers except 72 is a perfect square.

33. C   Explanation: Each of the number except 279 is a multiple of 11.

34. A   Explanation: Numbers are alternatively multiplied by 2 and increased by 3.
         So, the missing number = 61 x 2 = 122.

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

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

36. A. This is an alternating addition and subtraction series. In the first pattern, 10 is subtracted from each
        number to arrive at the next. In the second, 5 is added to each number to arrive at the next.

37. C Heading, body, and closing are all parts of a letter; the letter is the whole, not a part.

38. 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.

39. D A gym is a place where people exercise. A restaurant is a place where people eat. Food (choice a) is
          not the answer because it is something people eat, not a place or location where they eat. The
          answer is not choice b or c because neither represents a place where people eat.

40. D

தமிழ் விடைகள்:

41.ஈ)தமிழ் நூல்   42.ஈ)பனம்பாரனார்   43.அ)ஐந்து   44.அ)அரச கேசரி

45.அ)17   46.அ)ராபர்ட்-டி-நொபிலி   47.அ)குணங்குடி மஸ்தான்   48.அ)பண்டிதமணி

49.அ)சேஷயங்கார்   50.அ)மீ.ரா

EVERYDAY SCIENCE

1. Which is correct order of solar system starting from Sun?
   a) Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune
   b) Venus, Mercury, Earth, Mars, Jupiter, Saturn, Neptune, Uranus
   c) Earth, Mercury, Venus, Mars, Jupiter, Saturn, Neptune, Uranus
   d) Mercury, Earth, Venus, Mars, Jupiter, Saturn, Neptune, Uranus

2. To prevent electric shocks, a/an-----is placed in the circuit
   a) Ammeter   b) Voltmeter   c) Fuse   d) Diode

3. Thermal energy transfer can occur through ----ways
   a) Two   b) three   c) four   d) five

4. Which is least conductor of electricity among the following?
   a) Wood   b) Copper   c) Iron   d) Water

5. The key factor in determining the weather is the quantity ------in the atmosphere
   a) Water vapour   b) Oxygen   c) Carbondioxide   d) Hydrogen

6. Color of the glow produced in the discharge tube
   a) depends on the pressure in the discharge tube   b) depends on the metal used as cathode
   c) depends on the gas used in the discharge tube   d) does not depend on the nature of the gas used in the discharge tube

7. A man can survive without food for atleast?
   a) 1 month   b) 2 month   c) 3 month   d) 4 month

8. When a person enters a dark room from bright light he is not able to see clearly for a little while because the
   a) Eye is unable to adjust itself immediately   b) Retina becomes insensitive momentarily
   c) Iris is unable to dilate the pupil immediately   d) Distance between the lens and retina take time to adjust

9. Salinization is -----?
   a) Accumulation of salts in water   b) Accumulation of salts in soil
   c) Accumulation of salts in body   d) Accumulation of salts in animals

10. Highest percentage of nitrogen is found in which among the following fertilizers among the given options?
    a) Calcium ammonium nitrate   b) Ammonium nitrate   c) Calcium nitrate   d) Urea

GENERAL STUDIES

11. Dr. Rajendra Prasad Memorial Award, which was recently announced, is associated with which filed?
    [A] Teaching   [B] Public Administration   [C] Social Service   [D] Entrepreneurship

12. 'Mind Master: Winning Lessons from a Champion's Life' is the memoir of which personality?
    [A] Magnus Carlsen   [B] ViswanathanAnand   [C] R Praggnanandha   [D] RaghuramRajan

13. Which state/UT announced to conduct a government-backed shopping festival in 2023?
    [A] Mumbai   [B] New Delhi   [C] Chennai   [D] Bengaluru

14. Ilaiyaraaja, who was recently nominated to RajyaSabha, is an eminent personality in which field?
    [A] Music   [B] Sports   [C] Business   [D] Literature

15. Which state topped the utilisation of funds under Smart City Mission?
    [A] Telangana   [B] Tamil Nadu   [C] Uttar Pradesh   [D] Himachal Pradesh

16. The World Bank has approved a funding of Rs 1600 Crores to which state for power sector development?
    [A] Gujarat   [B] Himachal Pradesh   [C] Karnataka   [D] Tamil Nadu

17. Which state government has launched its online taxi hiring service, for the first time in India?
    [A] Kerala   [B] Kolkata   [C] Chhattisgarh   [D] Punjab

18. Who is Father of Scientific Management?
    [A] Henry Fayol   [B] Elton Mayo   [C] Chester Bernard   [D] F. W. Taylor

19. Bonus Shares are issued to–
    [A] Equity Share holders [B] Preference Shareholders [C] Debenture Holders [D] Secured Creditors

20. Disinvestment of shares means–
    [A] To sale the shares of private company to public   [B] To sale the shares of public company to the public
    [C]To sale the shares of Government company to the public
    [D] To sale of shares by holding company to its subsidiary company

CURRENT AFFAIRS

21. India's first indigenously developed Hydrogen Fuel Cell Bus has been inaugurated in which city?
    [A] Mysuru   [B] Hyderabad   [C] Pune   [D] Ahmedabad

22. Which is the location of the National Seed Congress in 2022?
    [A] Hyderabad   [B] Mysuru   [C] Gwalior   [D] Vishakhapatnam

23. What is the name of the 3.5-km-long freight train, which was recently tested?
    [A] Bharat Freight   [B] Super Vasuki   [C] India Freight   [D] Bharat Goods

24. The Central government has planned to collaborate with which state to develop a 'district good governance portal'?
    [A] Arunachal Pradesh   [B] Assam   [C] Sikkim   [D] Karnataka

25. Which state has inaugurated Rajiv Gandhi Centre of Advance Technology (R-CAT)?
    [A] Chhattisgarh   [B] Rajasthan   [C] Sikkim   [D] Punjab

26. Under which act, the minutes of the Monetary Policy Committee Meeting are released?
    [A] Banking Regulation Act   [B] Reserve Bank of India Act
    [C] Monetary Policy Act   [D] Payment and Settlement Act
27. Which company has developed India's first indigenously-developed RT-PCR kit for testing monkey pox disease?
    [A] Biocon   [B] Bharat Biotech   [C] Transasia Bio-Medicals   [D] Serum Institute of India
28. Which country is the host of the 'Pitch Black' air combat exercise?
    [A] USA   [B] Australia   [C] France   [D] Japan
29. Artemis III is the crewed Moon landing mission of which country?
    [A] Japan   [B] USA   [C] UK   [D] Australia
30. When is the 'World Photography Day' celebrated?
    [A] August 15   [B] August 19   [C] August 20   [D] August 22

QUANTITATIVE APTITUDE

31. What percent is 15 paise of 2 rupees 70 paise?
    a) 5 5/9 %   b) 9 5/5 %   c) 4 5/9 %   d) 9 9/5 %
32. What percentage is 40 paise of 2 rupees?
    a) 20%   b) 0.05%   c) 0.2%   d) 0.02%
33. 280 candidates appeared for an examination of which 252 passed. What is the fail percentage?
    a) 8%   b) 6%   c) 10%   d) 12%
34. 30% apples out of 450 are rotten. How many apples are in good conditions?
    a) 310   b) 315   c) 320   d) 325
35. What is the number which exceeds 16% of it 42?
    a) 50   b) 52   c) 58   d) 60

TEST OF REASONING

36. Find the number of triangles in the given figure

    a) 10   b) 14   c) 8   d) 12
37. How is my father's mother's only child's son's mother related to my father?
    a) Sister   b) Mother   c) Grandmother   d) Wife
38. 20, 32, 45, 59, 74, ?
    a) 95   b) 90   c) 85   d) 79
39. BCB, DED, FGF, HIH,…………………
    a) JKJ   b) IJI   c) HJH   d) JHJ
40. The day after the day after tomorrow is four days before Monday. What day is it today?
    a) Monday   b) Tuesday   c) Wednesday   d) Thursday

தமிழ்

41. "சிற்றில் நற்றூண் பற்றிநின்மகன் யாண்டுஉளனோஎனவினவுதிஎன்மகன்"என்றுபுறநானூற்றுப் பாடல் வரியை இயற்றியவர் யார்?
    அ.காவற்பெண்டு   ஆ.ஔவையார்   இ.கபிலர்   ஈ.வெள்ளிவீதியார்
42. "பாயக் காண்பதுசுதந்திரவெள்ளம் பணியக் காண்பதுவெள்ளையர் உள்ளம்" என்றுபாடியவர்?
    அ.பாரதியார்   ஆ.வ.உ.சி.   இ.பாரதிதாசன்   ஈ.இரா.பி.சேதுபிள்ளை
43. கப்பல் கட்டும் கலைஞர்களைஎவ்வாறுஅழைப்பர்?
    அ.குயவர்   ஆ.தச்சர்   இ.கம்மியர்   ஈ.கொல்லர்
44. குகைஓவியத்தைஎவ்வாறுஅழைப்பர்?
    அ.கேலிசித்திரம்   ஆ.தாள் ஓவியம்   இ.கலம்காரிஓவியம்   ஈ.கோட்டோவியம்
45. உ.வே.சா. நூலகத்தில் எத்தனைஒலைச்சுவடிகள்,எத்தனைதமிழ் நூல்கள் உள்ளன?
    அ.2128ஓலைச்சுவடிகள்,2914தமிழ்நூல்கள்   ஆ.2821ஓலைச்சுவடிகள்,1429தமிழ்நூல்கள்
    இ.8212ஓலைச்சுவடிகள், 4192தமிழ்நூல்கள்   ஈ.1282 ஓலைச்சுவடிகள், 9241தமிழ்நூல்கள்
46. கண்ணகியின் வரலாற்றைவிளக்கும் நாற்பத்தொன்பதுசிற்பத் தொகுதிகள் இடம் பெற்றுள்ளநகரம் ?
    அ.கொற்கை   ஆ.பூம்புகார்   இ.தொண்டி   ஈ.கன்னியாகுமரி
47. இரட்டைநகரம் என்றுஅழைக்கப்பெறும் நகரம் எது?
    அ. அம்பாசமுத்திரம்,தென்காசி   ஆ. மதுரை,வடமதுரை
    இ.திருநெல்வேலி,பாளையங்கோட்டை   ஈ.சென்னை,வடசென்னை
48. 300ஆண்டுகளுக்கு முன்புகுற்றாலத்திற்குவந்தசைவசமய குரவர் யார்?
    அ.மாணிக்கவாசகர்   ஆ.சுந்தரர்   இ. திருநாவுக்கரசர்   ஈ.திருஞானசம்பந்தர்
49. காயிதேமில்லத் தனதுமகனை இந்தியா - சீனாப் போரில் ஈடுபடுத்ததயாராக இருப்பதாகயாருக்குக் கடிதம் எழுதினார்?
    அ.நேரு   ஆ.இந்திராகாந்தி   இ.காந்தியடிகள்   ஈ.ராஜிவ்காந்தி
50. சராசரியாகமனிதன் தனதுவாழ்நாளில் எத்தனைஆண்டுகள் தூங்குகிறான்?
    அ.10ஆண்டுகள்   ஆ.20ஆண்டுகள்   இ.30ஆண்டுகள்   ஈ.4000ஆண்டுகள்

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

GENERAL STUDIES   11.B   12.B   13.B   14.A   15.B   16.B   17.A   18.D   19.A   20.B

CURRENT AFFAIRS   21.C   22.C   23.B   24.A   25.B   26.B   27.C   28.B   29.B   30.B

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

31. a) 5 5/9 %
       Let us assume the number be x.
        1 rupee = 100 paise; so, total paise = 2 rupees 70 paise = 270 paise.
       (x / 100) * 270 = 15   x = (15 * 100) / 270 = 50 / 9 = 5 5/9 %

32. a) 20%
       Let us assume the number be x.
       1 rupee = 100 paise; so, total paise = 2 rupees = 200 paise
       (x / 100) * 200 = 40   x = (40 * 100) / 200 = 40 / 2 = 20%

33. c) 10%
       Total candidates   = 280
       Passed candidates   = 252
       Failed candidates   = 28
       Fail percentage   = (28 / 280) * 100 = 10%

34. b) 315
       Rotten apples   = (30 / 100) * 450 = 3 * 45 = 135
       So, good apples   = 450 – 135 = 315.

35. a) 50
       Let us assume the number be x.
       (100 – 16 / 100) * x = 42   (84 / 100) * x = 42   x = (42 * 100) / 84 = 100 / 2 = 50

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

36.B Reason:
The figure may be labeled as shown.
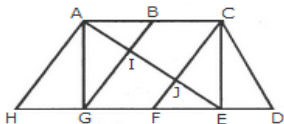
The simplest triangles are AHG, AIG, AIB, JFE, CJE, and CED i.e. 6 in number
The triangles are composed of two components each are ABG, CFE, ACJ, and EGI i.e. 4 in number.
The triangles composed of three components each are ACE, AGE, and CFD i.e. 3 in number
There is only one triangle i.e. AHE composed of four components.
Therefore, there are **6 + 4 + 3 + 1 = 14** triangles in the given figure

37.D Reason:
Father's mother=Grandmother,   Grandmother only one child=Father   Father's son=me
My mother related to my father = **Wife**

38.B Reason:
The differences between the consecutive terms of the series are 12, 13, 14, 15, 16, …..
2nd term = 1st term + 12 = 20 + 12 = 32   3rd term = 2nd term + 13 = 32 + 13 = 45
4th term = 3rd term + 14 = 45 + 14 = 59   5th term = 4th term + 15 = 59 + 15 = 74
Thus, ? = 6th term = 5th term + 16 = 74 + 16 = **90**

39.A Reason:
This series consists of a simple alphabetical order with the first two letters of all segments: B, C, D, E, F, G, H, I, J, K. The third letter of each segment is a repetition of the first letter. So correct answer is **JKJ.**

40.A Reason:
Four days before Monday is Thursday, simply because four days after Thursday is Monday. Besides, day after the day after tomorrow is Thursday only if present day is **Monday**.

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. The lift of an Aeroplane is cause by
   a) Low of gravitation b) Theorem of continuity c) Pascel's Law d) Bernouli's theorem
2. Echo is heard due to
   a) Refraction b) Scattering c) Reflection d) Interference
3. Volume of gas is inversely proportional to pressure at constant mass of temperature, this is called as
   a) Henry's law b) Dalton's law c) Boyle's law d) Charle's law
4. Who discovered Radium?
   a) Marie and Pierre Curie b) Andre-Louis Debierne c) KasimirFajans d) Oswald Helmuth Gohring
5. Clove, the commonly used spice is obtained from the
   a) Fruit b) Flower bud c) Stem d) Root
6. Onion is a modified form of
   a) Leaf b) Stem c) Root d) Bud
7. The floral part that produce pollen grains
   a) Sepal b) Petal c) Anther d) Ovary
8. Which of the following controls the amount of light entering in to the eye?
   a) Cornea b) Iris c) Retina d) Optic nerve
9. What prevent the entry of food into the wind pipe?
   a) Trachea b) Larynx c) Epiglottis d) Pharynx
10. The Deficiency of vitamin A causes
    a) beriberi b) night blindness c) rickets d) pellagra

GENERAL STUDIES

11. Which of the following is not a measure to control inflation adopted by the Government or RBI?
    A. Monetary Policy B. Fiscal Policy C.Financial Inclusion D. Price Control
12. Household sector in India invests maximum part of its savings in which of the following?
    A. Insurance B.Fixed Deposits C. Mutual Funds D. Government Securities
13. Where is the headquarters of the coconut development board located?
    A.Kochi B. Chennai C. Hyderabad D. Pune
14. What is the motto of World Chess Federation?
    A.We are one people B. Together we are one C. All are one D. Together for a purpose
15. How many times India has won the Asia Cup Tournament?
    A. 10 B. 8 C. 6 D.7
16. How many Prime Ministers of India have been awarded Bharat Ratna till date?
    A. 3 B. 4 C.7 D. 5
17. In which year, Capital of India was shifted to Delhi from Kolkata?
    A. 1910 B.1911 C. 1915 D.1917
18. In which of the following state 'Hampi Dance Festival' is celebrated?
    A. Kerala B. Telangana C.Karnataka D. Tamil Nadu
19. Which of the following is the dominant Operating System in the world?
    A. MacOS B.Microsoft C. Linux D. None of the Above
20. What kind of tax system is found in India?
    A. Degressive B. Proportional C. Progressive D. None of the Above

CURRENT AFFAIRS

21. Puli Thevar, whose birth anniversary was celebrated recently, was a freedom fighter from which state?
    a. West Bengal b. Tamil Nadu c. Odisha d. Gujarat
22. AICTE has partnered with which technology company to accelerate digital creativity skills across India?
    a. Microsoft b. Adobe c. IBM d. Accenture
23. Which institution has released the report incidence, mortality, morbidity and socioeconomic burden of snakebite in the country?
    a. AIIMS b. ICMR c. NITI Aayog d. IMA
24. Which state/UT recorded the highest number of cybercrime incidents in 2021?
    a. Maharashtra b. New Delhi c. Karnataka d. Uttar Pradesh
25. The International Monetary Fund (IMF) approved a loan of USD 2.9 billion to which country to tackle its economic crisis?
    a. Iran b. Afghanistan c. Sri Lanka d. Venezuela
26. What is the name of the Hydrogen that is produced from a carbon-free nuclear power?
    a. Green Hydrogen b. White Hydrogen c. Pink Hydrogen d. Orange Hydrogen
27. Cyrus Mistry, who passed away recently, was associated with which field?
    a. Politics b. Business c. Sports d. Literature

28. What is the theme of the 'International Day of Clean Air for blue skies' celebrated?
   a. Clean Air for Clean Earth   b. The Air We Share   c. Clean Air for All   d. Leaving No one behind
29. SPARK is a Studentship program recently launched in which field?
   a. Architecture   b. Literature   c. Ayurveda   d. Virology
30. Where was the International Dairy Federation World Dairy Summit (IDF WDS) 2022 held?
   a.Varanasi   b. Greater Noida   c. Amritsar   d. Nainital

QUANTITATIVE APTITUDE
31. If a number when divided by 4, is reduced by 21, the number is _____
   a) 18   b) 20   c) 28   d) 38
32. Find a number such that when 15 is subtracted from 7 times a number the result is 10 more than twice the number
   a) 5   b) 10   c) 15   d) 20
33. 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) 40%   b) 50%   c) 60%   d) 70%
34. Find the average of first 40 natural numbers
   a) 10.5   b) 30.5   c) 20.5   d) 15.5
35. Find the odd man out:- 3, 5, 7, 12, 17, 19
   a) 19   b) 17   c) 13   d) 12
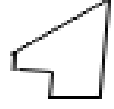
TEST OF REASONING
36. In a certain code, PAPER is written as QPARE. How is TABLE written in that code?
   A.UBALE   B.UBCMF   C. UZAKD   D.UBAEL
37. Select three figures out of the following five figures which when fitted into each other would form a triangle.

   A.2, 4, 5   B. 1, 3, 4   C. 1, 3, 5   D.3, 4, 5
38. Careful is to careless as honest is to
   A. Honesty   B. Clever   C. truthful   D. Corrupt
39. Mumbai: Maharashtra::?:Rajasthan
   A. Bhopal   B. Jaipur   C. Chandigarh   D. Chennai
40. Find the missing series19, 29, 40, 44, ?,
   A.50   B. 52   C. 54   D. 48

தமிழ்
41. கீழ்க்கண்டவற்றுள் வினையாலணையின் பெயர் எது?
   அ) சொன்னான்   ஆ) சொன்னவன்   இ) சொன்ன   ஈ) சொல்லி
42. கீழ்க்கண்டவற்றுள் விளித்தொடர் எது?
   அ) படித்து வந்தான்   ஆ) கண்ணா படி   இ) படித்த கண்ணன்   ஈ) படித்தான் கண்ணன்
43. புளிச்சோறு என்பதன் இலக்கணக்குறிப்பு யாது?
   அ) உவமைத்தொகை   ஆ) பண்புத்தொகை   இ) வினைத்தொகை   ஈ) உம்மைத் தொகை
44. முதல் நிலை திரிந்த தொழிற்பெயர் எது?
   அ) வீடு   ஆ) வாழ்த்து   இ) பாடு   ஈ) நினைத்தல்
45. சைவச் சித்தாந்தக் கோட்பாடுகளை வெளிப்படுத்தியவர் யார்?
   அ) குணங்குடி மஸ்தான் ஆ) வண்ணக்களஞ்சிய புலவர்   இ) செய்குத்தம்பிப் பாவலர் ஈ) புலவர் நாயகம்
46. புதின இலக்கியத்தின் தந்தை யார்?
   அ) மாயூரம் வேதநாயகம் பிள்ளை   ஆ) ராஜம் ஐயர்   இ) மாதவையா   ஈ) ஆரணி குப்புசாமி முதலியார்
47. மதுரை கண்ணன் கூத்தனார் எழுதிய நூல் எது?
   அ) இன்னா நாற்பது   ஆ) இனியவைநாற்பது   இ) கார் நாற்பது   ஈ) களவழி நாற்பது
48. 2022ஆம் ஆண்டிற்கான யுவ பிரஸ்கார் விருது பெறத் தேர்வானவர் யார்?
   அ) எம்.தவசி   ஆ) மலர்வதி   இ) கார்த்திக் பாலசுப்பிரமணியன்   ஈ) பி.காளிமுத்து
49. முதல் உலகத் தமிழ்ச் செம்மொழி மாநாடு நடைபெற்ற ஆண்டு எது?
   அ) 2010   ஆ) 1966   இ) 1968   ஈ) 1970
50. தமிழ் வளர்ச்சித் துறையின் தற்போதைய அமைச்சர் யார்?
   அ) தங்கம் தென்னரசு   ஆ) மு.க.ஸ்டாலின்   இ) பொன்முடி   ஈ) அன்பில் மகேஸ் பொய்யா மொழி

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

21-B [Tamil Nadu].Puli Thevar was a Tamil Palaiyakkarar who ruled Nerkattumseval, situated in the Sankarankoil taluk, Tenkasi,formerly Tirunelveli Tamil Nadu. He is notable fighting against East India Company at 1759 - 1761 in India. He was one of the first fighters to refuse to pay taxes to the British. Tamil Nadu Governor R N Ravi and Chief Minister M K Stalin paid floral tributes to the statue of freedom fighter while Prime Minister Narendra Modi paid tributes to the leader.

22- B [Adobe] The All-India Council for Technical Education (AICTE) has signed a partnership agreement with Adobe to accelerate digital creativity skills across India. Under the agreement, Adobe will offer courses and expertise for up-skilling educators. It will also integrate digital creativity into the curriculum, to prepare students with creative and digital literacy skills. The partnership aims to empower over 75,000 educators across 10,000 higher education institutions by 2024.

23- B [ICMR]Indian Council of Medical Research (ICMR) has released a study on the incidence, mortality, morbidity and socioeconomic burden of snakebite in the country. As per the study, snakes kill more than 45,000 people in India each year, while only 30% of the victims reach hospitals to seek medical treatment. The number of deaths due to venomous snakebites in India is 46,900 per year.

24- C [Karnataka]As per the data released by the National Crime Records Bureau, the number of cybercrime incidents in 2021 has gone up by 18.4 per cent since 2019. The number of such cases against women has risen at 28 per cent. Out of the 52,974 incidents reported in 2021, 20.2 per cent were reported as cases of crime against women. Karnataka had the highest share with 2,243 cases, followed by Maharashtra and Uttar Pradesh.

25- C [Sri Lanka]The International Monetary Fund (IMF) approved a loan of USD 2.9 billion to Sri Lanka. The country is battling its worst economic crisis since independence in 1948. Sri Lankan President Wickremesinghe, who is also the country's Finance Minister, presented his first budget, which aimed to boost revenue and fight inflation.

26- C [Pink Hydrogen]The Carbon-free hydrogen produced from a carbon-free nuclear power is referred as the Pink Hydrogen. Pink hydrogen can also be manufactured via electrolysis, where the electricity supplied by nuclear power plants. To manufacture green hydrogen, where electrolyzers are supplied by and electricity is supplied by a wind or solar farm.

27- B [Business]Cyrus Mistry, the 54-year-old former chairman of Tata Sons, has died in a road accident. Mistry was the sixth chairman of the Tata group and the second not named Tata. He was removed as chairman of Tata Sons, the holding company of the Tata conglomerate, after India's top court ruled in Tata Group's favour. The Shapoorji Pallonji (SP) Group, founded by Mistry's father, currently holds a near 18 percent stake in Tata group.

28- B [The Air We Share]The third International Day of Clean Air for blue skies is held on 7 September 2022, under the theme of 'The Air We Share'. It focuses on the trans-boundary nature of air pollution highlighting the need for collective action. The 74th session of the United Nations (UN) General Assembly adopted a resolution designating 7 September as the 'International Day of Clean Air for blue skies'.

29- C [Ayurveda]The Central Council for Research in Ayurvedic Sciences (CCRAS) launched the Studentship Program for Ayurveda Research Ken (SPARK). It was launched for Ayurveda (BAMS) students studying in recognised Ayurveda colleges. The selected research fellows will be offered a financial support of Rs.50,000 under the fellowship.

30- B [Greater Noida]Prime Minister Narendra Modi inaugurated the International Dairy Federation World Dairy Summit (IDF WDS) 2022 in Greater Noida. Indian dairy industry accounts for about 23% of global milk, producing around 210 million tonnes annually. Various schemes have led to an increase of milk production by more than 44% in the last eight years.

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

31. C Let the number be x then $x/4 = x-21$ $x = 4(x-21)$ $x = 4x-84$ $x-4x = -84$ $-3x = -84$ $x = 28$

32. A Let the number be x then $7x-15 = 2x+10$ $5x = 25$ $x = 5$

33. A Let A and B be the set of students who failed in Hindi and English
n (A)=35, n(B)=45, n(A∩B)=20,   n (A∪B)=n(A)+n(B)- n(A∩B) = 35+45-20 = 80-20 = 60
hence the percentage (100-60)%=40%.

34. C n(n+1)/2=40x41/2 = 820   Required average 820/40=20.5

35. D Non prime number

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

36. D The first letter of the word PAPER is moved one step forward and the next two letters have exchanged their positions and so on. So, following the same coding, T will be coded as U, A will be coded as B, B will be coded as A, L will be coded as E and E will be coded as L. Thus, TABLE is written as UBAEL in that code.

37. D Figures 3, 4 and 5 will form the triangle as shown in the following image;

38. D Careful and careless are opposite traits. In a similar way, honest and corrupt are opposite traits.

39. B Mumbai is the capital of Maharashtra. Similarly, Jaipur is the capital of Rajasthan.

40. B
The pattern is,
19 + (1 + 9) = 19 + 10 = 29   29 + (2 + 9) = 29 + 11 = 40
40 + (4 + 0) = 40 + 4 = 44   44 + (4 + 4) = 44 + 8 = 52   52 is the missing series.

தமிழ் விடைகள்:

41. ஆ) சொன்னவன்   42. ஆ) கண்ணா படி   43. ஆ) பண்புத்தொகை   44. அ) வீடு
45. அ) குணங்குடி மஸ்தான்   46. அ) மாயூரம் வேதநாயகம் பிள்ளை   47. இ) கார் நாற்பது
48. ஈ) பி.காளிமுத்து   49. அ) 2010   50. அ) தங்கம் தென்னரசு

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EVERYDAY SCIENCE

1. Who was the India's first person in the space?
   a) Rajesh Sharma   b) Rakesh Sharma   c) Kalpana chawla   d) Sunita Williams
2. The device employed to measure the diameters of stars and our galaxy (Milky Way) is called
   a) Photometer   b) Barometer   c) Viscometer   d) Interferometer
3. What is the composition of soap?
   a) Sodium salt with fatty acids   b) Potassium salt with fatty acids
   c) Both a & b   d) Sodium and Potassium salt mixed with chemicals
4. 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
5. Which one of the following elements occurs most abundantly in our universe?
   a) Hydrogen   b) Nitrogen   c) Helium   d) Oxygen
6. Probiotic yoghurt produced by
   a) Lactobacillus   b) Bacillus   c) Stapylococcus   d) Methanococcus
7. Which one of the plant has the largest ovule and anther?
   a) *Cycas*   b) Mango   c) Thiruodu tree   d) Coconut
8. Central food Technological Research Institute (CFTRI) is Located in
   a) Mysore   b) Lucknow   c) Uttarkhand   d) Chennai
9. Reserve Bank of Blood is
   a) Spleen   b) Lungs   c) Liver   d) Pancreas
10. Which of the following acid that is secreted in the stomach?
    a) HCI   b) H_2SO_4 c) H_2CO_3 d) HNO3

GENERAL STUDIES

11. On which of the following rates Reserve Bank of India provides loan to scheduled commercial banks?
    A] Repo Rate   B] Reverse Repo rate   C] Credit Rate   D] Bank rate
12. Which sector contributed the maximum to GDP at the time of Independence?
    A] Agriculture   B] Services   C] Manufacturing   D] None of the above
13. Which of the following economic activity cannot be included in the tertiary sector?
    A] Working in a call-centre   B] Tuition occupation   C] Bee-keeping D] Banking
14. What were the main objectives of 'Garibi Hatao' (Poverty Removal) and 'Development with Justice'?
    A] Plan Holiday   B] Fourth Five Year Plan C] Rolling Plan D] Fifth Five Year Plan
15. Who benefits the most during periods of inflation?
    A] corporate servants   B] creditors   C] entrepreneurs   D] government servants
16. Who wrote Bande Mataram?
    a) Rabindranath Tagore b) Bankim Chandra Chatterjee c) Sharat Chandra Chottapadhyay   d)None of the above
17. When Indian National Anthem was first sung?
    a) August 15, 1947   b) During 1857 Revolt   c) 27th December 1911   d) 26th January 1950
18. In the Third Battle of Panipat, who defeated Marathas?
    a) Afghans   b) Mughals   c) British Army   d) None of the above
19. Where did the formation of Azad Hind Fauj take place?
    a) Thailand   b) Singapore   c) Russia   d) Germany
20. Tripitakas are sacred books of
    a)Buddhists   b)Hindus   c) Jains   d) Muslims

CURRENT AFFAIRS

21. Which regulatory body has notified a framework introducing a Social Stock Exchange (SSE) in India?
    [A] Reserve Bank of India   [B] Securities and Exchange Board of India
    [C] Department of Financial Services   [D] Economic Advisory Council
22. Who is the most successful pace bowler in the history of international cricket, as of 2022?
    [A] JaspritBumrah   [B] James Anderson   [C] RavindraJadeja   [D] Ishant Sharma
23. 'Samvatsari Day' is a traditional festival celebrated in which religion?
    [A] Buddhism   [B] Hinduism   [C] Jainism   [D] Sikhism
24. Which education sector institution launched the Online Grievance Registration System named 'e- Samadhan'?
    [A] AICTE   [B] UGC   [C] NTA   [D] NCERT
25. AICTE has partnered with which technology company to accelerate digital creativity skills across India?
    [A] Microsoft   [B] Adobe   [C] IBM   [D] Accentur
26. Which ship building company has been conferred with the Green Channel Certification by Ministry of Defence?
    [A] Goa Shipyard   [B] Cochin Shipyard
    [C] Garden Reach Shipbuilders and Engineers   [D] Mazagon Dock Shipbuilders

27. Which Indian state/UT launched 'Rural Backyard Piggery Scheme'?
    [A] Assam   [B] Meghalaya   [C] West Bengal   [D] Chhattisgarh
28. Which Union Ministry presents Smart Solutions Challenge and Inclusive Cities Awards?
    [A] Ministry of MSME   [B] Ministry of Housing and Urban Affairs
    [C] Ministry of Commerce and Industry   [D] Ministry of Science and Technology
29. Who is the head of the Committee recently set up to review the current gas pricing formula?
    [A] Suresh Prabhu   [B] Kirit Parikh   [C] Jitendra Singh   [D] Hardeep Singh Puri
30. Which Union Ministry presents Smart Solutions Challenge and Inclusive Cities Awards?
    [A] Ministry of MSME   [B] Ministry of Housing and Urban Affairs
    [C] Ministry of Commerce and Industry   [D] Ministry of Science and Technology

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 goods train runs at the speed of 72 kmph and crosses a 250 m long platform in 26 seconds. What is the length of the goods train?
    a) 230 m   b) 240 m   c) 260 m   d) 270 m
33. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was:
    a) 2700   b) 2900   c) 3000   d) 3100
34. Today is Monday. After 61 days, it will be:
    a) Wednesday   b) Saturday   c) Tuesday   d) Thursday
35. In 100 m race, A covers the distance in 36 seconds and B in 45 seconds. In this race A beats B by:
    a) 20 m   b) 25 m   c) 22.5 m   d) 9 m

TEST OF REASONING

36. Hockey is related to India, similarly badminton is related to:
    a) Australia   b) China   c) Malaysia   d) Brazil
37. If Rekha says, ''Amrutha's father Raj is the only son of my father-in-law, Gopi, then how Bindhu, who is sister of Amruta, is related to Gopi?
    a) Daughter   b) Wife   c) Niece   d) None of these
38. Pic the odd man out
    a) India   b) Pakistan   **c)** Nepal   d) Bangladesh
39. Fill up the blank with a suitable alphabet: B, C, __, __, K, M, Q, S
    a) F, H   b) E, G   c) I, J   d) G, I
40. Among five students, Kavaskar is taller than Nibash and Bhuvanesh. Sundareshan is smaller than Bhuvanesh and Prabhakaran. Nibash is not the smallest. Then who is the smallest?
    a) Kavaskar   b) Sundareshan   c) Bhuvanesh   d) Prabhakaran

தமிழ்

41. தண்டமிழ் ஆசான் என யார்? யாரைப் பாராட்டினார்?
    அ.கம்பர் - சடகோபரை   ஆ.இளங்கோவடிகள் - சீத்தலைச்சாத்தனாரை
    இ.சீத்தலைச்சாத்தனார் - இளங்கோவடிகளை   ஈ.பாரதியார் - கம்பரை
42. இஸ்லாமியக் கம்பர் எனப் போற்றப்படுபவர் யார்?
    அ.அப்துல் மரைக்காயர்   ஆ.முகமதுலெப்பை   இ.கடிகைமுத்துப் புலவர்   ஈ.உமறுப்புலவர்
43. "மனிதரெல்லாம் அன்புநெறிகாண்பதற்கும் மனோபாவம் வனைப்போல் வீரிவடைந்து"... என்றவரிகளில் உள்ளமோனைச்சொற்களைக் கண்டறிக.
    அ.மனிதரெல்லாம்,மனோபாவம்   ஆ.வானைப்போல்,விரிவடைந்து
    இ.மனிதரெல்லாம்,அன்புநெறி   ஈ. மனோபாவம்,வானைப்போல்
44. வஞ்சகன் முதலைக் கண்ணீர்வடித்தான். இந்தஉவமையால் விளக்கப்பெறும் பொருத்தமானபொருள் யாது?
    அ.மெய்யழுகை - உண்மையானஅழுகை   ஆ.எண்ணித்துணியாதார் - நல்லவன் வடிக்கும் கண்ணீர்
    இ.பொய்யழுகை,பொய்யானநட்பு,தீமைதரக்கூடியகண்ணீர்   ஈ.பொய்யில்லாதஅழுகை
45. "மரபுக்கவிதையின் வேர் பார்த்தவர்,புதுக்கவிதையின் மலர் பார்த்தவர்" என்றுபாராட்டப்படும் கவிஞர் யார்?
    அ.சுரதா   ஆ.வாணிதாசன்   இ.முடியரசன்   ஈ.அப்துல்ரகுமான்
46. அரியவற்றுள் எல்லாம் அரிதே, ----------- பேணித்தமராக் கொளல்.
    அ.சிறியவரை   ஆ.பெரியாரை   இ.உறவினரை   ஈ.நண்பனை
47. தட்டிப்போட்டரொட்டிக்குப் புரட்டிப்போட ஆளு இல்லாம - இப்பழமொழியின் பொருள்
    அ.ஆள் பற்றாக்குறை   ஆ.உண்பவர்கள் பலர   இ.நேரமின்றிஉழைப்பது   ஈ.ரொட்டிபற்றாக்குறை
48. மோகனாஎன்னும் பாலசரஸ்வதிபரதநாட்டியத்திற்காகஎந்தவயதில் காஞ்சிபுரத்தில் மேடைஏறினார்?
    அ.10வயதில்   ஆ.7வயதில்   இ.12வயதில்   ஈ.16வயதில்
49. 'நாடகக் கலையைமீட்டெடுப்பதேதனதுகுறிக்கோள்'என்று கூறியவர்?
    அ.கந்தசாமி   ஆ.ந.முத்துசாமி   இ.வேலுச்சாமி   ஈ.அழகர்சாமி
50. 'காந்திமகான் கதை' எனும் இசை நூலின் ஆசிரியர் யார்?
    அ.வேழவேந்தன்   ஆ.பெ.தூரன்   இ.கொத்தமங்கலம் சுப்பு   ஈ.தமிழழகன்

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

31. C $85 : 18700 = 115 : x$

$$x = \frac{(18700 \text{ x } 115)}{85} = 25300.$$

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

32. D

$$\text{Speed} = \left(72 \text{ x } \frac{5}{18}\right)_{\text{m/sec}} = 20 \text{ m/sec.}$$

Time = 26 sec.

Let the length of the train be x metres.

Then, $\dfrac{x + 250}{26} = 20$

$\Rightarrow x + 250 = 520 \Rightarrow x = 270.$

33. A
Number of valid votes = 80% of 7500 = 6000.
∵ Valid votes polled by other candidate = 45% of 6000

$$= \left(\frac{45}{100} \text{ x } 6000\right) = 2700.$$

34. B
Each day of the week is repeated after 7 days.
So, after 63 days, it will be Monday.
∵ After 61 days, it will be Saturday.

35. A

Distance covered by B in 9 sec. $= \left(\dfrac{100}{45} \text{ x } 9\right)_{\text{m}} = 20$ m.

∵ A beats B by 20 metres.

TEST OF REASONING :   36.C   37.D   38.A   39.B   40.B
36. c) Hockey is the national game of India and similarly badminton is the national game of Malaysia.
37. d) None of these since Bindu is grand daughter of Gopi
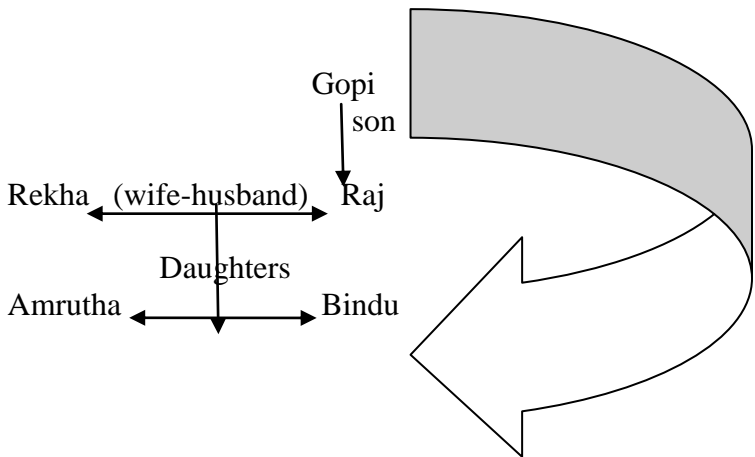
38. a) Nepal is a landlocked country, wheras other three countries have coastal area.
39. b) E,G. The alphabets correspond to prime number in the following order:
    B-2, C-3, E-5, G-7, K-11, M-13, Q-17, S-19
40. b) Sundareshan. As per Question, i) Kavaskar > Nibash & Bhuvanesh. ii) Sundareshan < Bhuvanesh & Prabhakaran. iii) Nibash is not smallest. Order: Prabhakaran > Kavaskar > Bhuvanesh > Nibash > Sundareshan
    So thus, Sundareshan is smallest.

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

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EVERYDAY SCIENCE

1. Food irradiation is used to
   (a) precook food (b) kill insects (c) kill micro-organisms (d) increase nutrient value
2. The energy produced by the Sun involves which of the following nuclei?
   (a) Pu (b) Li (c) U (d) H
3. Energy rich compound produced in respiration is
   (a) ATP (b) ADP (c) AMP (d) ACP
4. Which wavelength of light carry out photosynthesis in bacteria?
   (a) UV (b) Blue (c) Red (d) Near infra-red
5. Quinine is obtained from which part of the plants?
   (a) Bark (b) Stem (c) Roots (d) Leaves
6. The Devil fish belongs to the genus of
   (a) Cipia (b) Pyla (c) Mobula (d) Teridi
7. During dehydration, the substance that is usually lost by the body is
   (a) Sugar (b) Sodium chloride (c) Calcium phosphate (d) Potassium chloride
8. Earth is the ------- largest planet in the solar system
   (a) 4 (b) 5 (c) 6 (d) 7
9. A device used for the measurement of radioactivity is
   (a) Cyclotron (b) Nuclear reactor (c) Mass spectrometer (d) G.M.Counter
10. Which one of the following noble gases is not found in the atmosphere?
    (a) Xenon (b) Radon (c) Argon (d) Krypton

GENERAL STUDIES

11. In which year did the Cabinet Mission arrived in India?
    (A) 1942 (B) 1943 (C) 1945 (D) 1946
12. World Trade Organization came into existence in……
    (A) 1992 (B) 1993 (C) 1994 (D) 1995
13. According to the Constitution of India, which of the following is NOT one of the main organs of the Government?
    (A) Legislature (B) Bureaucracy (C) Executive (D) Judiciary
14. Panchayati Raj comes under….
    (A) Residual list (B) Concurrent list (C) State list (D) Union list
15. Delhi is connected with Chennai through which of the following national highway?
    [A] NH-16 [B] NH-44 [C] NH-48 [D] NH-5
16. Which among the following states ranks first in the production of thermal power?
    [A] Andhra Pradesh [B] Gujarat [C] Maharashtra [D] Karnataka
17. What is the main objective of "Vanbandhu Kalyan Yojana"?
    [A] To increase Forest Cover [B] Protection of Wildlife
    [C] Protection of Rivers [D] Welfare of Tribals
18.. Which is the longest railway tunnel in India?
    [A] Pir Panjal Tunnel [B] Sagaldan Tunnel [C] Parsik Tunnel [D] Budhni Tunnel
19. Who was the first Indian to join the Viceroy's executive council?
    [A] G.K. Gokhale [B] Mahatma Gandhi
    [C] Satyendra Prasad Sinha [D] Ambika Charan Majumdar
20. In which year legislative council of Tamilnadu was abolished?
    [A] 1983 [B] 1985 [C] 1986 [D] 1987

CURRENT AFFAIRS

21. _____ appointed as new director general of the Indian Council of Medical Research (ICMR)
    a) Dr. Rajiv Bhai b) R. N. Ravi c) Muneesh Bhandari d) Adikesavalu
22. International Daughter's day is observed on _____
    a) first Sunday of September b) Fourth Sunday of September
    c) Second Sunday of September d) Third Sunday of September
23. _____ won the German PEN award
    a) Nithish Kumar b) SmrtiIrani c) Meena Kandaswamy d) Thamizhachi Thangapandiyan
24. _____ company has partnered with technology giants such as Meta, Google, Microsoft and Intel to roll out 5G services?
    a) Airtel b) Vidafone c) Tata Communications d) Reliance
25. _____ organisation manufacturers Tejas Mark-2 Fighter Jets
    a) HAL b) DRDO c) BHEL d) BDL
26. 'Swadesh Darshan' scheme is an initiative of which Union Ministry?
    a)Ministry of culture b)Ministry of Tourism
    c)Ministry of External Affairs d)Ministry of Communications

27. When is the 'International Day of Charity' celebrated every year?
   a) September 3   b) September 6   c) September 5   d) September 7
28. PM SHRI Yojana, which was launched recently, is associated with which field?
   a) Electronics   b) Export   c) Research and Development   d) Education
29. Jhabua power plant, which was recently acquired by NTPC, is located in which state?
   a) Madhya Pradesh   b) Punjab   c) Rajasthan   d) Tamil Nadu   30.
India's first lithium cell manufacturing facility is set to be inaugurated in which city?
   a) Mysuru   b) Tirupathi   c) Chennai   d) Kochi

QUANTITATIVE APTITUDE

31. A man covers first 48 km of his journey in 40 minutes and next 32 km in 30 minutes. Find his average speed.
   a) 4 km/hr   b) 67 km/hr   c) 70 km/hr   d) 74 km/hr
32. A 20 liter mixture contains 30% Water and 70% Milk. If 5 liters of milk is added to the mixture, what will be the percentage of water in the new mixture ?
   a) 22%   b) 23%   c) 24%   d) 25%
33. A boy was asked to multiply a number by 25 but by mistake he multiplied by 45 and the answer was 200re than the correct answer. What was the number?
   a) 7   b) 8   c) 10   d) 12
34. If the cost price of 120 mangoes is equal to the selling price of 100 mangoes, what is the profit percent in this transaction?
   a) 15%   b) 17%   c) 20%   d) 21%

35. is equal to
$$\frac{(0.6)^0-(0.1)^{-1}}{\left(\frac{3}{2^3}\right)^{-1}\cdot\left(\frac{3}{2}\right)^3+\left(-\frac{1}{3}\right)^{-1}}$$
a) – 3 / 2   b) – 1 / 2   c) 2 / 3   d) – 2 / 3

TEST OF REASONING

36. Which word does NOT belong with the others?   A. acute   B. right   C. obtuse   D. parallel
37. Look carefully at the sequence of symbols to find the pattern. Select correct pattern.

A. 1   B. 2   C. 3   D. 4
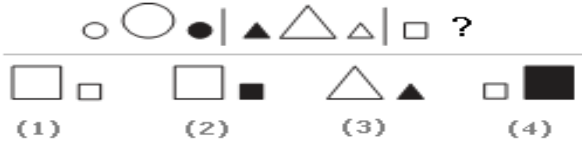
38. Choose the picture that would go in the empty box so that the two bottom pictures are related in the same way as the top two are related.

A. 1   B. 2   C. 3   D. 4
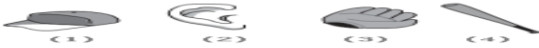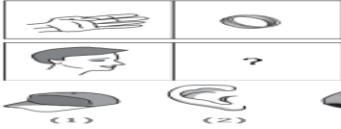
39. Look at this series: 664, 332, 340, 170, _____, 89, ... What number should fill the blank?
   A. 85   B. 97   C. 109   D. 178
40. If PAINT is coded as 74128 and EXCEL is coded as 93596 then how would you encode ACCEPT?
   A. 554978   B. 547978   C. 455978   D. 735961

தமிழ்

41. களை - என்ற சொல்லின் பொருள் யாது?
   அ)நீக்கு   ஆ)கரும்பு   இ)சிற்பம்   ஈ)இவற்றில் எதுவுமில்லை
42. பிழையற்ற தொடரைத் தேர்வு செய்க.
   அ)அவன் அல்ல   ஆ)அது அல்ல   இ)அவள் அல்லள்   ஈ)இவை அனைத்தும்
43. கீழ்க்கண்டவற்றுள் மகரக் குறுக்கத்திற்கான சான்று யாது?
   அ)தரும் வளவன்   ஆ)அறம் செய்   இ)தெய்வம் பெரிது   ஈ)இன்பம் காண்க
44. கீழ்க்கண்டவற்றுள் இடுகுறிச் சிறப்புப் பெயர் எது?
   அ)மரம்   ஆ)பனை   இ)அணி   ஈ)மூக்குத்தி
45. கற்க - என்னும் சொல்லிற்கான வாய்பாடு யாது?   அ)மலர்   ஆ)நேர்பு   இ)தேமா   ஈ)பிறப்பு
46. எந்த மன்னன் அவையில் தொல்காப்பியம் அரங்கேற்றப்பட்டது?
   அ)நிலந்தருதிருவிற் பாண்டியன்   ஆ)அதங்கோட்டாசான்   இ)பனம்பாரனார்   ஈ)காய்ச்சின பழுதி
47. ஜி.யு. போப் மொழிபெயர்க்காத நூல்கள் எவை?
   அ)திருக்குறள், புறநானூறு   ஆ)நாலடியார், மணிமேகலை
   இ)புறப்பொருள் வெண்பாமாலை, சிவஞானபோதம்   ஈ)இலக்கண விளக்கம், பிரபந்த தீபிகை
48. சீறாப்புராணத்தை அச்சேற்றியவர் யார்?
   அ)உமறுப்புலவர்   ஆ)சேகனாப்புலவர்   இ)குணங்குடி மஸ்தான்   ஈ)சவ்வாது புலவர்
49. பெரியார் உலா எழுதியவர் யார்?
   அ)மறையரசனார்   ஆ)எறு.ச.பாலசுந்தரனார்   இ)அ.கு.ஆதித்தர்   ஈ)முத்துலிங்கம்
50. 2022ஆம் ஆண்டிற்கான பால புரஸ்கார் விருது பெற்றவர் யார்?
   அ)ஜி.மீனாட்சி   ஆ)பாலபாரதி   இ)காளிமுத்து   ஈ)முருகேஷ்
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EVERYDAY SCIENCE 1.C   2.D   3.A   4.D   5.A   6.   7.B   8.B   9.D   10.B
GENERAL STUDIES   11.D   12.D   13.B   14.C   15.C   16.C   17.D   18.A   19.C   20.C
CURRENT AFFAIRS   21.A   22.B   23.C   24.D   25.A   26.B   27.C   28.D   29.A   30.B
QUANTITATIVE APTITUDE :   31.A   32.C   33.C   34.C   35.A

31. (A)

$$\text{Average speed} = \frac{Total\ distance\ covered}{Total\ time\ taken\ to\ cover\ the\ distance}$$

Total distance = 48 + 32 = 80 km
Total time = 40 + 35 = 75 minutes = $^{75}/_{60}$ hrs

$$\text{Average speed} = \frac{80}{\frac{75}{60}} = \frac{80}{75} * 60 = \frac{4800}{75} = 64 \text{ km/hr (Option A)}$$

32. (C) Initially, the mixture contains 30% Water= (30/100) *20=6 liters of Water
And, 70% of Milk = (70/100) *20=14 liters of Milk
After adding 5 liters of Milk, the mixture contains (14+5) 19 liters of Milk and 6 liters of Water.
∴Percentage of Water= (6/25)*100=24%

33. (C)

$$\text{The required number} = \frac{Increase\ in\ result}{Wrong\ multiplier - correct\ multiplier}$$

$$= \frac{200}{45-25} = 10$$

34. (C) Let the C.P. of 120 mangoes be Rs. 120   As per question, S.P. of 100 mangoes = Rs. 120
C.P. of 100 mangoes would be = Rs. 100   Profit = (S.P.-C.P.) = 120 -100 = 20

Profit percent = $\frac{Profit}{Cost\ price}$

=(20/100)*100=20%

35. (A)

$$\frac{(0.6)^0-(0.1)^{-1}}{\left(\frac{3}{2^3}\right)^{-1} \cdot \left(\frac{3}{2}\right)^3 + \left(-\frac{1}{3}\right)^{-1}} = \frac{1-\left(\frac{1}{10}\right)^{-1}}{\frac{2^3}{3} \cdot \frac{3^3}{2^3} + \frac{-3}{1}}$$

$$\frac{1-10}{\frac{3^3}{3} + \frac{-3}{1}} = \frac{-9}{9-3} = \frac{-9}{6} = \frac{-3}{2}$$

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

36. D. Acute, right, and obtuse are geometric terms describing particular angles. Parallel refers to two lines that never intersect.

37. B Notice that in each segment, all the figures have the same shape, but the one in the middle is larger than the two on either side. Also, notice that one of the figures is shaded and that this shading alternates first right and then left. To continue this pattern in the third segment, you will look for a square. Choice **B** is correct because this choice will put the large square between the two smaller squares, with the shading on the right.

38. A Hand is to ring as head is to cap. A ring is worn on a person's hand; a cap is worn on a person's head.

39. D This is an alternating division and addition series: First, divide by 2, and then add 8.

40. C Clearly, in the given code, the alphabets are coded as follows:
P A I N T   E X C E L
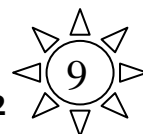7 4 1 2 8   9 3 5 9 6
Similarly A C C E P T
      4 5 5 9 7 8

தமிழ் விடைகள்: 41.அ)நீக்கு   42.இ)அவள் அல்லள்   43.அ)தரும் வளவன்   44.ஆ)பனை
      45.இ)தேமா   46.அ)நிலந்தருதிருவிற் பாண்டியன்
      47.ஈ)இலக்கண விளக்கம், பிரபந்த தீபிகை   48ஆ)சேகனாப்புலவர்
      49.அ)மறையரசனார்   50.அ)ஜி.மீனாட்சி

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EVERYDAY SCIENCE

1. **Which planet is known as the Morning and Evening Star?**
   a) Earth   b) Mars   c) Venus   d) Mercury
2. Television signals are converted into light signals by------?
   a) Optical fiber   b) Transistor   c) Decoder   d) Photo diode
3. When a ray of sunlight enters a dark room, its straight path become visible because of dust particles hanging in the air. It is because light is -----
   a) Visible   b) Transparent   c) Invisible   d) Opaque
4. In a fission nuclear reaction, a heavy nucleus breaks up into smaller nuclei whereas in another nuclear reaction two or more than two possibly nuclei are fused to form a heavy nucleus This Nuclear reaction is called ?
   a) Chemical Reaction   b) Nuclear reaction   c) Fission nuclear reaction   d) Fusion nuclear reaction
5. Which of the following is the most commonly used chemical for ripening of mangoes in India?
   a) Potassium Iodide   b) Silver Iodide   c) Ammonium Nitrate   d) Calcium Carbide
6. **Flying Reptiles were known as _____.**
   a) Dinosaurs   b) Plesiosaurs   c) Pterodactyls   d) Brachiosaurus
7. Tibia is a bone found in the ------
   a) Skull   b) Arm   c) Leg   d) Face
8. How many meiotic divisions are needed for forming 100 grains of wheat?
   a) 100   b) 25   c) 50   d)2
9. The salt loving salt –Plant is called ------------------------
   a) Xerophytes   b) mesophytes   c) glycophtes   d) Halophytes
10. The different names given to different parts of a program is known as
    a) Identifiers   b) Literals   c) Keywords   d) Operators

GENERAL STUDIES

11. Hitler party which came into power in 1933 is known as
    a. Labour Party   b. Nazi Party   c. Ku-Klux-Klan   d. Democratic party
12. Logarithm tables were invented by
    a. John Napier   b. John Doe   c. John Harrison   d. John Douglas
13. Kiran Bedi received Magsaysay Award for government service in
    a. 1992   b. 1993   c.1994   d. 1995
14. Where is the permanent secretariat of the SAARC?
    a. Kathmandu   b. New Delhi   c. Colombo   d. Islambad
15. The name of the Laccadive, Minicoy and Amindivi islands was changed to Lakshadweep by an Act of Parliament in
    a. 1970   b. 1971   c.1972   d.1973
16. The present Lok Sabha is the
    a. 14th LokShaba b. 15th LokShaba   c. 16th LokShaba   d.17th LokShaba
17. In which decade was the American Institute of Electrical Engineers (AIEE) founded?
    a. 1850   b. 1880   c.1930   d.1950
18. ' .MOV' extension refers usually to what kind of file?
    a. Image file   b. Animation/movie file   c. Audio file   d. MS Office document
19. Who is the first Indian woman to win an Asian Games gold in 400m run?
    a. M.L.Valsamma   b. P.T.Usha   c. Kamaljit Sandhu   d. K.Malleshwari
20. The first death anniversary day of Sri Rajiv Gandhi was observed as the
    a. National Integration Day   b. Peace and Love Day   c. Secularism Day   d. Anti-Terrorism Day

CURRENT AFFAIRS

21. After the recent Monetary Policy Committee Meeting of RBI (October 2022), what is the 2022-23 growth projection for India?
    [A] 6.5 %   [B] 7.0 %   [C] 7.5 %   [D] 8.2 %
22. Which institution unveiled a list of 50 exclusive and iconic heritage textile crafts of India?
    [A] UNESCO   [B] NITI Aayog   [C] Union Culture Ministry   [D] FICCI
23. Which country has recently signed a partnership agreement with Pacific island nations?
    [A] China   [B] USA   [C] Russia   [D] Germany
24. Pangasius Icaria, which was recently discovered in the Cauvery River, belongs to which species?
    [A] Turtle   [B] Catfish   [C] Frog   [D] Snake
25. As per a recent UNICEF report, what percent of child marriages can fall down if higher education is provided to girls?
    [A] 25 per cent   [B] 40 per cent   [C] 60 per cent   [D] 80 percent
26. Enceladus, which was seen in the news, is a moon of which planet?
    [A] Jupiter   [B] Saturn   [C] Venus   [D] Mars
27. Which technology major has announced to set up its first cloud region in Greece?
    [A] Amazon   [B] Microsoft   [C] Google   [D] Meta

28. Gurram Jashuva, who was also known as 'People's Poet' is from which state?
    [A] Kerala   [B] Andhra Pradesh   [C] Assam   [D] Odisha
29. India has partnered with which US state for ZEV (zero-emission vehicles) Policy programme?
    [A] California   [B] Massachusetts   [C] Florida   [D] Georgia
30. Which financial services company partnered with NASSCOM Foundation for 'Women Empowerment through Technology' project?
    [A] American Express   [B] JP Morgan   [C] Citibank   [D] Bank of America]

QUANTITATIVE APTITUDE

31. What is the difference in the place value of 5 in the numeral 754853?
    a. 49500   b. 49950   c. 45000   d. 49940

32. If January 1, 1996, was Monday, what day of the week was January 1, 1997?
    a. Thursday   b. Wednesday   c. Friday   d. Sunday

33. $7\frac{1}{2} - \left(2\frac{1}{4} \div \left\{ 1\frac{1}{4} - \frac{1}{2}\left(1\frac{1}{2} - \frac{1}{3} - \frac{1}{6}\right)\right\}\right)$ is equal to____?
    a. $\frac{2}{9}$ b. $4\frac{1}{2}$ c. $9\frac{1}{2}$ d. $1\frac{77}{228}$

34. If $2^x = 3^y = 6^{-z}$, then $\left(\frac{1}{x} + \frac{1}{y} + \frac{1}{z}\right)$ is equal to_____?
    a. 0   b. 1   c. 3/2   d. – 1/2

35. The ratio of income of two workers A and B are 3: 4. The ratio of expenditure of A and B is 2: 3 and each saves Rs 200. Find the income of A and B ?
    a. 500, 600   b. 600, 800   c. 600, 900   d. 800, 1000

TEST OF REASONING

36. Look at this series: 53, 53, 40, 40, 27, 27, ___ What number should come next?
    (a) 12   (b) 14   (c) 27   (d) 53

37. Look at this series: U32, V29, __, X23, Y20, . . . What number should fill the blank?
    (a) Z17   (b) W17   (c) W26   (d) Z26

38. Look carefully at thesequence of symbols and find out the pattern.

△ □ △ | □ ○ □ | ○ ◇ ○ | ◇ □ —

◇   □   ○   △
a.   b.   c.   d.

39. Find the word thatnames a necessary part of the underlined word. respiration
    (a) Mouth   (b) Circulation   (c) Oxygen   (d) Carbon monoxide

40. Choose the pair thatbest represents a similar relationship to the oneexpressed in the original pair of words.
    PHOBIC : FEARFUL
    (a) Cautious : emotional   (b) Envious : desiring   (c) Shy : familiar   (d) Asinine : silly

தமிழ்

41. ஆழ்வார்களின் பாசுரங்களைநாலாயிரதிவ்யபிரபந்தமாகதொகுத்தவர்
    அ.நாதமுனி   ஆ.நம்மாழ்வர்   இ.ஆண்டாள்   ஈ.சடகோபன்

42. வேதங்கள் யாராலும் எழுதப்படவில்லைஎனக் கூறுவது?
    அ.அத்வைதம்   ஆ.விசிட்டாத்துவைதம்   இ.பூர்வமீமாம்சை   ஈ.துவைதம்

43. சப்தபிரமாணத்திற்குமுதலிடம் தரும் தத்துவம்
    அ.அத்வைதம்   ஆ.வைசேகிதம்   இ.நியாயம்   ஈ.மீமாம்சை

44. 'வியாப்தி' என்றசொல்லானதுகீழ்க்கண்டஎந்தஅளவையோடுதொடர்புடையது?
    அ.காண்டல்   ஆ.கருதல்   இ.உரை   ஈ.உவமானம்

45. யோகத்தின் அங்கங்கள் எத்தனை?
    அ.எட்டு   ஆ.பத்து   இ.பதினெட்டு   ஈ.பன்னிரெண்டு

46. வேதம் என்பதற்கு -------- நூல் என்பதுபொருள்
    அ.அறிவு   ஆ.புகழ்   இ.இன்பம்   ஈ.பண்பு

47. ஆழ்வார்கள் மங்களாசாசனம் செய்யப்பெற்றதிருப்பதிகள் எத்தனை?
    அ.100   ஆ.101   இ.110   ஈ.108

48. ஆகாயதலம் எனஅழைக்கப்படும் ஊர்
    அ.திருச்சி   ஆ.காளஹஸ்தி   இ.சிதம்பரம்   ஈ.திருவண்ணாமலை

49. 'சிவஞானசித்தியார்' என்ற நூலின் ஆசிரியர் யார்?
    அ.உமாபதிசிவம்   ஆ.தொல்காப்பியர்   இ.இளங்கோவடிகள்   ஈ.அருள்நந்திதேவர்

50. மாணிக்கவாசகர் பின்பற்றியமெய்நெறி ------------- எனப்படும்.
    அ.சற்புத்திரமார்க்கம்   ஆ.தாசமார்க்கம்   இ.சகமார்க்கம்   ஈ.சன்மார்க்கம்

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

31. (b) The digit 5 has two place values in the numeral, $5 * 10^5 = 50,000$ and $5 * 10^1 = 50$.

∴Required difference = 50000 - 50 = 49950

32. (b) The year 1996 is divisible by 4, so it is a leap year with 2 odd days. As per the question, the first day of the year 1996 was Monday, so the first day of the year 1997 must be two days after Monday. So, it was Wednesday.

33. (b)

$$7\frac{1}{2} - \left(2\frac{1}{4} \div \left\{1\frac{1}{4} - \frac{1}{2}\left(1\frac{1}{2} - \frac{1}{3} - \frac{1}{6}\right)\right\}\right) = \frac{15}{2} - \left(\frac{9}{4} \div \left\{\frac{5}{4} - \frac{1}{2}\left(\frac{3}{2} - \frac{1}{3} - \frac{1}{6}\right)\right\}\right) = \frac{15}{2} - \left(\frac{9}{4} \div \left\{\frac{5}{4} - \frac{1}{2}\left(\frac{9-2-1}{6}\right)\right\}\right)$$

$$= \frac{15}{2} - \left(\frac{9}{4} \div \left\{\frac{5}{4} - \frac{1}{2}\left(\frac{6}{6}\right)\right\}\right) = \frac{15}{2} - \left(\frac{9}{4} \div \left\{\frac{5}{4} - \frac{1}{2}\right\}\right)$$

$$= \frac{15}{2} - \left(\frac{9}{4} \div \left\{\frac{5-2}{4}\right\}\right) = \frac{15}{2} - \left(\frac{9}{4} \div \left\{\frac{3}{4}\right\}\right) = \frac{15}{2} - \left(\frac{9}{4} \times \left\{\frac{4}{3}\right\}\right) = \frac{15}{2} - 3 = \frac{15-6}{2} = \frac{9}{2} = 4\frac{1}{2}.$$

34. (a)

Given: $2^x = 3^y = 6^{-z}$　　Let $2^x = 3^y = 6^{-z} = k$ (say)　　Then $2 = k^{1/x}$, $3 = k^{1/y}$, $6 = k^{-1/z}$

$2 \times 3 = 6$　　$k^{1/x} \times k^{1/y} = k^{-1/z}$ (from above equation)

$k^{(1/x + 1/y)} = k^{-1/z}$

Equating the powers of above equation because the base is same

$$\frac{1}{x} + \frac{1}{y} = -\frac{1}{z}$$

$$\frac{1}{x} + \frac{1}{y} + \frac{1}{z} = 0.$$

35. (b)　Let the income of A = 3x, B = 4x,　Expenditure ratio = 2: 3,　Saving in each case = 200

Apply formula:　Income- expenditure = saving　Or, income- saving = expenditure

Now, [3x- 200]/ [4x- 200] = 2/3　　Or, 9x -600 = 8x – 400　　Or, x= 200

Income of A = 3 * 200 = 600　　　Income of B = 4 * 200 = 800

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

36. Ans (b) 14**:**　In this series, each number is repeated, then13 issubtracted to arrive at the next number.

37. Ans (c) W26**:** In this series, the letters progress by 1; thenumbers decrease by 3.

38. Ans (a)**:**　　Look at each segment. You will notice thatin each, the figure on the right and the figureon the left are the same; the figure inbetween is different. To continue this patternin the last segment, the diamond onthe left will be repeated on the right.

39. Ans: (c) Oxygen**:** A person or animal must take in oxygen forrespiration to occur. A mouth (choice a) is notessential because breathing can occur throughthe nose. Choices (b) and (d) are clearly not essentialand can be ruled out.

40. Ans: (d) Asinine **:** silly: To be phobic is to be extremely fearful; to be asinineis to be extremely silly.

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

@@@@@@@@@
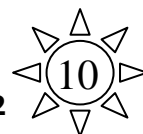
EVERYDAY SCIENCE

1. A man presses more weight on earth at___ position.
   a) Sitting   b) Standing   c) Lying   d) None
2. Who is the first person to define speed?
   a) Galileo   b) Newton   c) Kepler   d) Ptolemy
3. The purpose of choke in tube light is
   a) Induce high voltage   b) Induce low resistance   c) Induce high resistance   d) Induce low voltage
4. The easily noticed smell of the LPG gas is because of ___
   a) Butane   b) Propane   c) Methane   d) Ethanethiol
5. Which among the following chemicals is used in photography?
   a) Silver Bromide   b) Potassium Chloride   c) Sodium Bromide   d) Magnesium Chloride
6. Which element is used in the manufacture of safety matches?
   a) Phosphorous   b) Magnesium   c) Silicon   d) Suphur
7. Which one of the following is also called the power houses of the cell?
   a) Golgi body   b) Mitochondrion   c) Ribosome   d) Lysosome
8. Yellow spots on citrus leaves is due to the deficiency of
   a) Boron   b) Zinc   c) Iron   d) Magnesium
9. Pituitary gland is located in ___
   a) Intestine   b) Liver   c) Kidney   d) Brain
10. In the eye, colour vision is affected by the presence of _____
   a) Rods   b) Cones   c) Choroid coat   d) Sclerotic coat

GENERAL STUDIES

11. Which of the following statement with respect to the Indian President's power is/are correct?
   A) Money bills can be introduced in the Parliament only with his prior recommendation
   B) The President can declare the financial emergency
   C) The administration of Union Territories is the responsibility of the President   D) All of the above
12. "The Cultural Development is characterised by intellectual, aesthetic and spiritual attainments" who said the above statement
   A) J.S.Mill   B) S.M.Fairchild   C) Max Weber   D) Tansen
13. Which of the following journal is not associated with SubramaniyaBharathi?
   A) A New Daily   B) Vijaya   C) India   D) New India
14. What Thiruvalluvar says are the qualities of an Ambassador?
   A) Purity, Resources, Courage   B)Knowledge, Origin, Education
   C) Duty, Knowing the fitting, knowing the place   D)All of the above
15. Which article says that, "No child below the age of 14 years shall be employed to work in any factory or in any hazardous employment"?
   A) Article 27   B) Article 26   C) Article 24   D) Article 25
16. Boothalingam study group is related to
   A) Trade unions   B) Strikes   C) Lockouts   D) Wages
17. Principles of scientific thinking are
   A) Empiricism   B) Rationalism   C) Skepticism   D) All of the above
18. The best source of Vitamin D is
   A) Margarine   B) Rice   C) Wheat   D) Sugarcane
19. The planning commission of India was changes as NITI AAYOG in _____
   A) March, 2015   B) January, 2015   C) December, 2015   D) April, 2015
20. Which of these was the first computer virus?
   A) Creeper   B) Brain   C) Worm   D) Morris worm

CURRENT AFFAIRS

21. Which country scored least at the Global Hunger Index in 2022?
   [A] Kuwait   [B] Bosnia   [C] Yemen   [D] Afghanistan
22. What is name of India's first antidote against SARS-CoV-2 virus?
   [A] VINCOV-19   [B] ANTICOV-19   [C] COVEX-19   [D] NOCOV-19
23. What is the theme of the 'International Translation Day 2022'?
   [A] A world without barriers   [B] Accessibility and Translation [C] Translation Includes All b [D] Strengthening peace
24. Which Indian personality has won the 'Changemaker' award at the UN SDG Action Awards?
   [A] SrishtiBakshi   [B] KapilMandawewala   [C] Amit Saraogi   [D] Kaif Ali
25. Carbon Calculator feature', which was seen in the news, is associated with which company?
   [A]Meta   [B]Mastercard   [C]Amazon   [D] Microsoft

26. When is the 'International Day of Older Persons' observed every year?
    [A]October1   [B]October3   [C]October5   [D] October 7
27. Pradhan Mantri Gram SadakYojana (PMGSY)-III has been launched in which state?
    [A] Gujarat   [B] Himachal Pradesh   [C] Sikkim   [D] Kerala Show
28. Durgavati Tiger Reserve, which was notified recently, is located in which state/UT?
    [A] West Bengal   [B] Madhya Pradesh   [C] Maharashtra   [D] Andhra Pradesh
29. As per the UN Multidimensional Poverty Index (MPI), which country has the largest number of poor people worldwide?
    [A] Congo   [B] Nigeria   [C] India   [D] Indonesia
30. 'Mind the Gap. Leave No One and No Place Behind' is the theme of which special day celebrated in October?
    [A]WorldHabitatDay   [B]WorldBrotherhoodDay   [C]WorldMigrantsDay   [D] World Children Day

QUANTITATIVE APTITUDE

31. If 3:4 = 6:n then values of n is _____   a.18   b.9   c.8   d.6
32. 30% of 20 plus 20% of 30 equals   a.10   b.12   c.18   d.21
33. In an examination 30% students fail in maths 25% fail in English and 15% in both what is a pass percentage?
    a.45%   b.55%   c.40%   d.60%
34. 25=?% of 625   a.4   b.3   c.2   d.6
35. Complete series: 3, 9, 81_____   a. 6561   b. 6526   c. 6165   d.1665

TEST OF REASONING

36. Which word is the odd man out?
    A. trivial   B. unimportant   C. important   D. insignificant
37. Pointing to a photograph of a boy Mr.Ram said, "He is the son of the only son of my mother." How is Mr Ram related to that boy?
    A. Brother   B. Uncle   C. Cousin   D. Father
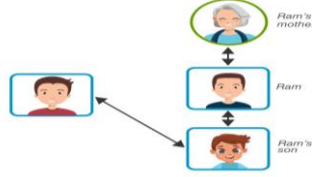
Refer to the alphanumeric series given below and answer the following questions:
A * 5 9 I N & E @ # U 1 &

38. How many vowels in the above arrangement are preceded by a symbol?
    A. One   B.Two   C.Three   D.None   E.Four
39. Which is the second element to the left of the sixth element from the right?
    A. &   B. @   C.N   D.E
40. ABDEFH IJL MNP QRT ?
    A. XYZ   B.VWY   C.WXZ   D.UVX

தமிழ்

41. குறளோவியம் என்ற நூலின் ஆசிரியர் யார்?
    அ)கலைஞர் மு.கருணாநிதி   ஆ)மு.வரதராசனார்   இ)நாமக்கல் கவிஞர்   ஈ)புலவர் குழந்தை
42. கால்டுவெல் எந்த நாட்டைச் சார்ந்தவர்?
    அ)இங்கிலாந்து   ஆ)அயர்லாந்து   இ)ஜெர்மனி   ஈ)இத்தாலி
43. அகத்தீசன் சதகம் எழுதியவர் யார்?
    அ)படிக்காசுப்புலவர்   ஆ)மாணிக்கவாசகர்   இ)குணங்குடி மஸ்தான்   ஈ)அம்பலவாணக் கவிராயர்
44. வில்லிபுத்தூராரை ஆதரித்தவர் யார்?
    அ)சடையப்பவள்ளல்   ஆ)சீதக்காதி   இ)வள்ளல் பொன்.பாண்டித்துரை ஈ)வரபதியாட்கொண்டான்
45. வள்ளலார் கண்ட ஒருமைப்பாடு என்ற நூலிற்காக சாகித்யா அகாடமி விருது வழங்கப்பட்ட ஆண்டு யாது?
    அ)1966   ஆ)1955   இ)1970   ஈ)1969
46. பொருப்பு- என்ற சொல்லின் பொருள் யாது?
    அ)மலை   ஆ)கடமை   இ)கடப்பாடு   ஈ)உள்ளம்
47. கீழ்க்கண்டவற்றுள் விளித்தொடரைத் தேர்க.
    அ)வீடு கட்டினான்   ஆ)கோவலன் மகள் மணிமேகலை   இ)கண்ணா வா   ஈ)கோவலன் வந்தான்
48. சந்திப்பிழையற்ற தொடரைத் தேர்க
    அ)தமிழ்தாய்   ஆ)சீதைச் சென்றாள்   இ)இதுச் சிறப்பு   ஈ)அழியாப் புகழ்
49. வழூஉச் சொற்கள் நீங்கிய தொடரைத் தேர்க.
    அ)இடது கை   ஆ)ஒரு ஊர்   இ)முப்பத்தி மூன்று   ஈ)நன்செய்
50. பொன்னியின் செல்வன் நாவல் எந்த இதழில் வெளிவந்தது?
    அ)மணிக்கொடி   ஆ)வானம்பாடி   இ)கல்கி   ஈ)உங்கள் நூலகம்

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

GENERAL STUDIES 11.D 12.B 13.D 14.A 15.C 16.D 17.D 18.A 19.B 20.A

CURRENT AFFAIRS 21.C 22.A 23.A 24.A 25.B 26.A 27.B 28.B 29.C 30.A

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

31. C 3:4=6:n, 3/4=6/n, 3n=24, n=24/3, n=8
32. B =30/100 x 20 +20/100x30 =600/100+600/100=6+6=12
33. D P(a)=30% p(b)=25% p(a n b) =15% P(a U b) = 30+25-15 =55 – 15=40%
    Pass percentage 100-40 =60%
34. A 25=x/100X625, 625x = 2500, X=2500/625=4
35. A 3 x 3 =9, 9x9=81, 81x81=6561

TEST OF REASONING : 36.C 37.D 38.B 39.C 40.D
36. C Remaining are synonyms of each other.
37. D The boy in the photograph is the only son of the son of Ram's mother i.e., the son of Ram. Hence, Ram is the father of the boy.
38. B Two "E" is preceded by "&" and "U" is preceded by "#"
39. C **N** Sixth element from the right is E and second to its left is N
40. D UVX

தமிழ் விடைகள்:
41.அ)கலைஞர் மு.கருணாநிதி 42.ஆ)அயர்லாந்து 43.இ)குணங்குடி மஸ்தான்
44.ஈ)வரபதியாட்கொண்டான் 45.அ)1966 46.அ)மலை 47.இ)கண்ணா வா
48.ஈ)அழியாப் புகழ் 49.ஈ)நன்செய் 50.இ)கல்கி

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