EVERYDAY SCIENCE

1. The fuse wire is a wire of ---------- resistance and ------ melting point
   a) Low, High   b) High, High   c) Low, Low   d) High, Low
2. Seismograph is used to measure
   a) Earthquake Waves   b) Tidal Waves   c) Cyclonic Waves   d) Sea Waves
3. The compound is used as rocket propellant
   a) Hydrazine   b) Nitric acid   c) Ammonia   d) Nitrogen
4. Name the gas which is evolved during photosynthesis
   a) Carbon dioxide   b) Nitrogen   c) Hydrogen   d) Oxygen
5. The edible part of Cauliflower is --------
   a) Fruit   b) Bud   c) Inflorescence   d) Flower
6. Which one of the following is not a National Symbol?
   a) Mango fruit   b) Dolphin   c) Lotus   d) Coconut Tree
7. Which one of the antibody is produced in response to the allergens?
   a) Ig A   b)Ig G   c) IgE   d) IgM
8. All of the following digestive reactions occur in our small intestine, except
   a) Maltose ------- Glucose+Glucose   b) Monoglycerides ----- Fatty acids+ Glycerol
   c) Peptones ----- Dipeptides   d) Dipeptides ------Amino acids
9. Which blood group(s) can be transferred to the person with no antigens on RBC(s)?
   a) A only   b) Both B & O   c) O only   d) A, B & O
10. Transfer of a file from a server to your computer is called
    a) Downloading a file   b) Uploading a file   c) Transfer a file   d) Chang a file

GENERAL STUDIES

11. Which institution launched the 'National Mission for Mentoring'?
    [A] AICTE   [B] NCTE   [C] NASSCOM   [D] NITI Aayog
12. Which state/UT launched Disha Mobile App aimed at safety and security of women?
    [A] Kerala   [B] Andhra Pradesh   [C] Rajasthan   [D] West Bengal
13. Which state launched a portal to create Family ID under 'One Family One Identity' scheme?
    [A] Bihar   [B] Uttar Pradesh   [C] Assam   [D] Odisha
14. Malviya National Institute of Technology (MNIT) of which city has been identified as National Centre for Earthquake Safety of Dams?
    [A] Amritsar   [B] Jaipur   [C] Mumbai   [D] Bhopal
15. Which state announced a three-year tax exemption on agricultural income of Tea?
    [A] West Bengal   [B] Assam   [C] Kerala   [D] Tamil Nadu
16. The Indian government has put forth stock limit on which food product for the first time in 15 years?
    [A] Rice   [B] Wheat   [C] Sugar   [D] Coconut
17. Which country is the host of the special Olympics World Games 2023?
    [A] India   [B] Japan   [C] Germany   [D] USA
18. When is the Global Wind Day celebrated annually?
    [A] June 10   [B] June 15   [C] June 18   [D] June 23
19. As on 17.06.23, the gross direct tax collections for financial year 2023-24 has grown by what percentage?
    [A] 0.16%   [B] 1.50%   [C] 2.54%   [D] 12.73%
20. Swaminathan Janakiraman, who was selected for the post of RBI Deputy Governor, was earlier the MD of which bank?
    [A] Canara Bank   [B] State Bank of India   [C] Punjab National Bank   [D] Indian Bank

CURRENT AFFAIRS

21. Which Asian country released its 'National Climate Research agenda'?
    [A] India   [B] Sri Lanka   [C] Nepal   [D] Bangladesh
22. Daam, which was seen in the news, is a?
    [A] Bacteria   [B] Malware   [C] Super computer   [D] Cryptocurrency
23. Which country has launched the 'Shenzhou-16' Mission?
    [A] Japan   [B] China   [C] South Korea   [D] Israel
24. Which institution has set up a Committee to Implement Rare Diseases Policy?
    [A] Ministry of Health and Family Welfare   [B] Delhi High Court   [C] BIS   [D] IRDAI
25. Which state is set to host the 'Mahakumbh 2025' event?
    [A] Uttar Pradesh   [B] Karnataka   [C] Odisha   [D] West Bengal
26. Which country is the host of the '22nd SCO Summit'?
    [A] China   [B] India   [C] Sri Lanka   [D] Myanmar

27. Which Indian chess player defeated Magnus Carlsen in the Norway Chess blitz tournament?
   [A] R Praggnananda   [B] D Gukesh   [C] Nihal Sarin   [D] Arjun Erigaisi
28. Which institution launched the 'National Mission for Mentoring'?
   [A] AICTE   [B] NCTE   [C] NASSCOM   [D] NITI Aayog
29. The Indian government has put forth stock limit on which food product for the first time in 15 years?
   [A] Rice   [B] Wheat   [C] Sugar   [D] Coconut
30. What is the name given to tiny particles of plastic debris that are smaller than 5 millimeters in size?
   [A] Mini plastics   [B] Micro plastics   [C] Milli plastics   [D] Tiny plastics

QUANTITATIVE APTITUDE

31. A man buys a cycle for Rs. 1400 and sells it at a loss of 15%. What is the selling price of the cycle?
   a) Rs.1090   b) Rs. 1160   c) Rs. 1190   d) Rs. 1202
32. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:
   a) 588 apples   b) 600 apples   c) 672 apples   d) 700 apples
33. Which of the following is a prime number?
   a) 33   b) 81   c) 93   d) 97
34. Find the odd man out : 8, 27, 64, 100, 125, 216, 343
   a) 27   b)100   c)125   d)343
35. Find out the wrong number in the series. 196, 169, 144, 121, 100, 80, 64
   a) 169   b) 144   c) 80   d) 100

TEST OF REASONING

36. Look at this series: 7, 10, 8, 11, 9, 12, ... What number should come next?
   a) 7   b) 10   c) 12   d) 13
37. ELFA, GLHA, ILJA, _____, MLNA
   a) OLPA   b) KLMA   c) LLMA   d) KLLA
38. Choose the word that is a necessary part of the underlined word, **Swimming**
   a) Pool   b) Bathing suit   c) Water   d) Life jacket
39. Guide is to direct as reduce is to
   a) Decrease   b) Maintain   c) Increase   d) Preserve
40. Pointing towards a man, a woman said, "His mother is the only daughter of my mother." How is the woman related to the man?
   a) Mother   b) Grandmother   c) Sister   d) Daughter

தமிழ்

41. ஆயிரம் முறை மேடையேறிய 'இராஜராஜ சோழன்' என்ற நாடகத்தின் ஆசீயர் யார்?
   அ.அரு.இராமநாதன்   ஆ.பாலசுப்பிரமணியன்   இ.சிங்காரவேலு   ஈ.பிராங்கிளின்
42. பகவத் கீதை எத்தனை மொழிகளில் மொழிபெயர்க்கப் பெற்றுள்ளது?
   அ.105   ஆ.55   இ.75   ஈ.35
43. முதல் தமிழ் பத்திரிகை ----------- ?
   அ.சுதேசமித்ரன்   ஆ.தினமணி   இ.சிலோன் கெசட்   ஈ.தினத்தந்தி
44. சங்க காலத்தில் கயொனுக்கு என்ன பெயர்?
   அ.சிரல்   ஆ.எருவை   இ.கம்புள்   ஈ.வன்மீகம்
45. ஆயிரம் ஆண்டுகள் பழமையான சிவன்கோயிலின் எஞ்சிய பகுதி எங்கு கண்டறியப்பெற்றது?
   அ.கேரளா   ஆ.மத்தியபிரதேசம்   இ.ஆந்திரா   ஈ.தமிழ்நாடு
46. தமிழ்த்தாய் சிலை எந்த ஊரில் நிறுவப்பட உள்ளது?
   அ.மதுரை   ஆ. தூத்துக்குடி   இ.திருச்சி   ஈ.தஞ்சாவூர்
47. தமிழக அசினால் 'இயல், இசை, நாடக மன்றம்' என்ற அமைப்பு எப்பொழுது தொடங்கப்பெற்றது?
   அ.1947   ஆ.1955   இ.1956   ஈ.1981
48. ஜெயகாந்தனுக்கு இராஜராஜன் விருதைப் பெற்றுத் தந்த நாவல் எது?
   அ.ஒரு பிடி சோறு   ஆ.அக்னிபிரவேசம்   இ.சுந்தரகாண்டம்   ஈ.சில நேரங்களில் சில மனிதர்கள்
49. தமிழ்நாடு மாநிலத்தின் மொத்த பரப்பளவு?
   அ.1,50,000ச.கி.மீ   ஆ.1,70,000ச.கி.மீ   இ.1,30,000ச.கி.மீ   ஈ.1,90,000ச.கி.மீ
50. மும்மொழி பாடத்திட்டம் தமிழகத்தில் நடைமுறைப்படுத்தப்பட்ட ஆண்டு ---------
   அ.1967   ஆ.1965   இ.1970   ஈ.1975

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

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

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

QUANTITATIVE APTITUDE :   31.C   32.D   33.D   34.B   35.C
31. **C**   S.P. = 85% of Rs. 1400 = Rs.85/100 x 1400 = Rs.1190
32. **D**   Explanation: Suppose originally he had x apples. Then, (100 - 40) % of x = 420.

$\Rightarrow 60\,/100$ x x = 420

$\Rightarrow$ $x =$ (420 x 100) / 60   = 700.

33. **D**   Clearly, 97 is a prime number.
34. **B**   The pattern is 2^3, 3^3, 4^3, 5^3, 6^3, 7^3. But, 100 is not a perfect cube.
35. **C**   Numbers must be $(14)^2$, $(13)^2$, $(12)^2$, $(11)^2$, $(10)^2$, $(9)^2$, $(8)^2$. So, 80 is wrong.

TEST OF REASONING :   36.B   37.D   38.C   39.A   40.A
36. b) 10. This is a simple alternating addition and subtraction series. In the first pattern, 3 is added; in the
        second, 2 is subtracted.
37. d) KLLA.   The second and forth letters in the series, L and A, are static. The first and third letters consist of
        an alphabetical order beginning with the letter E
38. c) Water. Water is essential for swimming-without water, there is no swimming. The other choices are
         things that may or may not be present.
39. a) Decrease. Guide and direct are synonyms, and reduce and decrease are synonyms. The answer is not
        choice b or d because neither means the same as reduce. (Choice c) is incorrect because increase is the
        opposite of reduce
40. a) Mother. Only daughter of my mother → myself. Hence, the woman is the mother of the man

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

@ @ @ @ @ @ @ @

EVERYDAY SCIENCE

1. That carbon dioxide contains carbon can be proved by introducing in the gas a burning
   (a) Magnesium wire   (b) Candle   (c) Charcoal   (d) Match stick
2. A flying jet possesses
   (a) Potential energy   (b) Kinetic energy   (c) Wind energy   (d) Both (A) & (B)
3. Which fruit has its seed outside?
   (a) Strawberry   (b) Banana   (c) Cashew Nut   (d) Groundnut
4. Ribozymes are Enzymes made of
   (a) DNA   (b) HCl   (c) RNA   (d) Amino acid
5. "Tendon" connect to
   (a) Bone with cartilage   (b) Bone to bone   (c) Muscle to bone   (d) Muscle to muscle
6. Which of the following is called 'Cemetery of RBC?
   (a) Yekart   (b) Spleen   (c) Brain   (d) Heart
7. Hygrometer is used for the measurement of which of these?
   (a) Relative Humidity   (b) Latent heat   (c) Air pressure   (d) All of these
8. As per first law of thermodynamics, energy of an isolated system is:
   (a) 0   (b) 1   (c) Constant   (d) infinite
9. Which among the following is an example of dicot seeds?
   (a) Rice   (b) Wheat   (c) Pulses   (d) Maize
10. Which of the following polymers cannot be biodegradable?
    (a) Cellulose   (b) Starch   (c) Protein   (d) PVC

GENERAL STUDIES

11. Which of the following statement(s) is/are correct?
    (i) In 2019, World Environment Day was Celebrated in China
    (ii) The, Theme for the World Environment Day is Air Pollution
    a) (i) and (ii) are true   b) (i) is true, (ii) is false   c) (i) and (ii) are false   d) (ii) is true, (i) is false
12. Consumer Protection Act is called as
    a) Tamil Nadu Nugarvor Kavasam   b) Consumer's Magna Carta
    c) World Nugarvor Kavasam   d) Valuable Consumer Kavasam
13. The education system in India consists of primarily ____ levels
    a) Eight   b) Six   c) Four   d) Three
14. Which article of the Indian Constitution talks about "Taxes levied and collected by the Union but assigned to the States?
    a) Art.201   b) Art.268   c) Art.272   d) Art.269
15. The Central Vigilance Commission was established on the recommendation of
    a) Administrative Reforms Commissions   b) National Development Council
    c) Santhanam Committee on Prevention of Corruption   d) Law Commission
16. The Chief Justice and other Judges of the Indian Supreme Court are appointed by
    a) The President   b) The Attorney General   c) The Governor   d) The Prime Minister
17. Which is the healthy vitamin that is function for eyes in human beings?
    a) Vitamin B   b) Vitamin C   c) Vitamin A   d) Vitamin D
18. "Prince of Wales Cup" is related to which sport?
    a) Boxing   b) Tennis   c) Hockey   d) Golf
19. When was ChatGPT initially trained?
    a) June 2018   b) November 2022   c) December 2022   d) January 2023
20. What does the acronym "GPT" stand for in ChatGPT?
    a) Generative Pre-Trained Transformer   b) Large Language Model
    c) Chat Generative Pre-Trained Transformer   d) OpenAI ChatGPT

CURRENT AFFAIRS

21. _____ is the head of the committee set up by the Union Home Ministry in Manipur to facilitate the peace-making process?
    [A] Union Home Minister   [B] Manipur Governor [C] Manipur Chief Minister [D] Prime Minister of India
22. When is the Global Wind Day celebrated annually?
    [A] June 10   [B] June 15   [C] June 18   [D] June 23 23.
Which space agency posted a photo of a flower that bloomed in the zinnia plant in the space garden?
    [A] NASA   [B] ISRO   [C] JAXA   [D] CAN
24. VAIBHAV fellowships programme is implemented by which Department of Government of India?
    [A] Department of Science and Technology   [B] Department of Economic Affairs
    [C] Department of Social Justice   [D] Department of Revenue
25. Ministry of Defence granted approval for the procurement of Predator (MQ-9 Reaper) drones from which country?
    [A] Russia   [B] USA   [C] Israel   [D] France
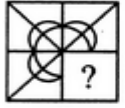
26. Who has been appointed as the new Chief of Research and Analysis Wing (RAW)?
    [A] Ravish Agarwal   [B] Ravi Sinha   [C] Nitin Agarwal   [D] K F Rustamji
27. Which is the first AIIMS to receive NABH accreditation?
    [A] AIIMS New Delhi   [B] AIIMS Nagpur   [C] AIIMS Madurai   [D] AIIMS Jodhpur
28. As of June 2023, Clinical Establishments (Registration and Regulation) Act required which institutions to be registered under it?
    [A] Hospitals   [B] AYUSH Wellness Centres   [C] Hair Transplant Centres   [D] Skin and Cosmetology Clinics
29. What is the name of the portal launched for monitoring the implementation of Centrally Sponsored Schemes of Justice Ministry ?
    [A] CSS Monitor Portal   [B] Info Vikas Portal   [C] Nyaya Vikas Portal   [D] Bharat Scheme Portal
30. Which state/UT recently withdraw its general consent for the CBI investigations?
    [A] Andhra Pradesh   [B] Karnataka   [C] Goa   [D] Tamil Nadu

QUANTITATIVE APTITUDE

31. Which one of the following can't be the square of natural number?
    A) 30976   B) 75625   C) 28561   D) 143642
32. If selling price is doubled, the profit triples. Find the profit percent.
    A) 66(2/3)%   B) 100%   C) 105(1/3)%   D) 120%
33. A number consists of 3 digits whose sum is 10. The middle digit is equal to the sum of the other two and the number will be increased by 99 if its digits are reversed. The number is:
    A) 145   B) 253   C) 370   D) 352
34. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age of the youngest child?
    A) 4 years   B) 7 years   C) 10 years   D) 16 years
35. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs?
    A) 6.25   B) 6.5   C) 6.75   D) 7

TEST OF REASONING

36. The next number in the series: 2, 5, 10, 17, 26, _____ is
    a) 35   b) 36   c) 37   d) 38
37. Identify the figure that completes the pattern

    a) 1   b) 2   c) 3   d) 4
38. If ADG : EHK, then LOR : _____.
    a) ORU   b) PSV   c) PTU   d) QTW
39. Pick the odd one out
    a) 264   b) 396   c) 471   d) 583
40. 'Pedology' is related to 'Soil' in the same way as 'Petrology' is related to
    a) Rock   b) Fossil   c) Petrol   d) Plants

தமிழ்

41. 2023ஆம்ஆண்டிற்கான பால சாகித்திய புரஸ்கார் விருது பெற்றவர் யார்?
    அ)உதயசங்கர்   ஆ)அம்பை   இ)ஆலந்தூர் மோகனரங்கன்   ஈ)வேணுகோபால்
42. தொண்டு என்பது எந்த எண்ணைக் குறிக்கும்?
    அ)ஏழு   ஆ)எட்டு   இ)ஒன்பது   ஈ)பத்து
43. திருக்குறளில் இரண்டாவதாக இடம்பெற்ற அதிகாரம் எது?
    அ)கடவுள் வாழ்த்து   ஆ)வான் சிறப்பு   இ)நீத்தார் பெருமை   ஈ)ஊடல் உவகை
44. ஆளுடைய அடிகள் என்று அழைக்கப்பட்டவர் யார்?
    அ)ஞானசம்பந்தர்   ஆ)நாவுக்கரசர்   இ)மாணிக்கவாசகர்   ஈ)சுந்தரர்
45. மனுமுறை கண்ட வாசகம் என்ற நூலை எழுதியவர் யார்?
    அ)மறைமலை அடிகள்   ஆ)திரு.வி.க.   இ)வள்ளலார்   ஈ)உ.வே.சா
46. கீழ்க்கண்டவற்றுள் உம்மைத் தொகைக்குப் பொருத்தமான சான்று எது?
    அ)அழகன் வந்தான்   ஆ)வெற்றிலை பாக்கு   இ)கண்ணனும் ராமனும்   ஈ)பாடம் படித்தான்
47. சோழன் வந்தான் என்பது _____ வேற்றுமை?
    அ)முதலாம்   ஆ)இரண்டாம்   இ)ஆறாம்   ஈ)எட்டாம்
48. முத்தழகன் படித்தார் என்பதன் இலக்கணக்குறிப்பு?
    அ)திணை வழுவமைதி   ஆ)பால் வழுவமைதி   இ)எண் வழுவமைதி   ஈ)இட வழுவமைதி
49. இலக்கணப் போலிக்குச் சான்று தருக. அ)வாயில் ஆ)நகர்ப்புறம் இ)தசை ஈ)கோவில்
50. கீழ்க்கண்டவற்றுள் மங்கலச் சொல் எது?
    அ)வெள்ளாடு   ஆ)ஓலை   இ)சுடுகாடு   ஈ)செத்தார்

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

21. The Union Ministry of home affairs has constituted a committee in violence-hit Manipur to facilitate the peace-making process among various conflicting ethnic groups. The peace committee, led by the Manipur governor, will constitute the chief minister, some ministers in the state government, MP, MLAs, leaders from across political parties, and eminent members of civil society, including artists and academics.

22. Every year, the Global Wind Day is celebrated on June 15 worldwide. The event is a collaborative endeavor led by Wind Europe and the Global Wind Energy Council (GWEC). This event provides an opportunity to raise awareness about the benefits of wind energy and promote its further development and usage worldwide.

23. NASA posted a photo of the flower that bloomed in the zinnia plant which was sowed and grown in the International Space Station. This particular experiment was started on the ISS in 2015 by NASA astronaut Kjell Lindgren. The space garden, developed by the ISS, demonstrates the possibility of growing foods outside of the limits of Earth.

24. The Department of Science and Technology (DST), Ministry of Science and Technology has launched Vaishvik Bhartiya Vaigyanik (VAIBHAV) fellowships programme. The programme aims to connect the Indian STEMM diaspora (Science, technology, engineering, mathematics, and medicine) with Indian academic and R&D institutions for collaborative research. The fellowship would be awarded to outstanding scientist/technologists of Indian origin (NRI/OCI/PIO) who are engaged in research activities in their respective countries.

25. The Ministry of Defence granted approval for the procurement of the Predator (MQ-9 Reaper) drones from the United States. The deal was approved recently during the Defence Acquisition Council meeting. The final decision on this matter will be made by the Cabinet Committee on Security (CCS).

26. IPS officer Ravi Sinha was recently appointed as the new Research and Analysis Wing (RAW) chief. He takes up this position from Samant Goel, who has completed his four-year tenure with the external spy agency. Sinha is currently the special secretary at the Cabinet Secretariat. He is a 1988 batch Indian Police Service (IPS) officer of the Chhattisgarh cadre.

27. AIIMS Nagpur received the NABH (National Accreditation Board for Hospitals and Healthcare Providers) accreditation recently. It is the first of all AIIMS to achieve this feat. The NABH accreditation is recognized globally as a standard for healthcare excellence.

28. The Indian government is planning to bring hair transplant centres, skin and cosmetology clinics, dental cosmetology clinics and therapy centres under the Clinical Establishments (Registration and Regulation) Act. At present, this Act currently requires only **hospitals** to be registered under it.

29. Nyaya Vikas Portal was launched recently for monitoring the implementation of Centrally Sponsored Schemes. It provides information regarding the funding, documentation, project monitoring and approval of these schemes. The Department of Justice has been implementing the Centrally Sponsored Scheme (CSS) for Development of Infrastructure Facilities for Districts and Subordinate Judiciary since 1993-94.

30. The Delhi Special Police Establishment Act, 1946 (Central Act XXV of 1946) requires the CBI to get prior permission from the state government before going to the state's jurisdiction for conducting probes. **Tamil Nadu** recently became the 10th state to withdraw its general consent for the CBI investigations.

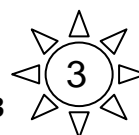**QUANTITATIVE APTITUDE :**   31.D 32.B 33.B 34.A 35.A

31. D   The square of a natural number never ends in 2.   143642 is not the square of natural number.

32. B   Let C.P. be Rs. x and S.P. be Rs. y.   Then, $3(y - x) = (2y - x)$ $y = 2x$.
Profit = Rs. $(y - x)$ = Rs. $(2x - x)$ = Rs. x.

Profit % = (Profit/CP) x 100 $= = \dfrac{x}{x} \times 100 = 100\%$

33. B   Let the middle digit be x.   Then, $2x = 10$ or $x = 5$. So, the number is either 253 or 352.
Since the number increases on reversing the digits, so the hundred's digits is smaller than the unit's digit.   Hence, required number = 253.

34. A   Let the ages of children be x, $(x + 3)$, $(x + 6)$, $(x + 9)$ and $(x + 12)$ years.
Then, $x + (x + 3) + (x + 6) + (x + 9) + (x + 12) = 50$, $5x = 20$, $x = 4$
Age of the youngest child = x = 4 years.

35. A   First 10 overs the run rate is 3.2 = 32 runs. Required run rate = (282-30)/40 = 250/40 = 6.25

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

36.C 37 Each number in the given series follows the order:
$1^2 + 1 = 2$, $2^2 + 1 = 5$, $3^2 + 1 = 10$, $4^2 + 1 = 17$ and so on…

37.C

38.B Each corresponding alphabet is +2 to the initial alphabet
A+4=E , D+4=H, G+4=K, Similarly: L+4=P, O+4=S, R+4=V

39.C In all the terms, the middle digit is the sum of first and third digit except 427

40.A The scientific study of soil is called Pedology and similarly the scientific study of rock is called Petrology.

தமிழ் விடைகள்:
41.அ)உதயசங்கர்   42.இ)ஒன்பது   43.ஆ)வான் சிறப்பு 44.இ)மாணிக்கவாசகர்   45.இ)வள்ளலார் 46.ஆ)வெற்றிலை பாக்கு 47.அ)முதலாம் 48.ஆ)பால் வழுவமைதி 49.அ)வாயில்   50.அ)வெள்ளாடு

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EVERYDAY SCIENCE

1. A 100W electric bulb is used for 10 hours a day. How many units of electrical energy are consumed by the bulb in 3days?
   a) 3.00 b) 1.08 c) 2.16 d) 0.33
2. Which of the following has highest frequency?
   a) radio waves b) alpha rays c) Gamma rays d) microwaves
3. Which colour of heat radiation represents the highest temperature?
   a) blood red b) dark cherry c) salmon d) white
4. What does air bag, used for safety of car driver, contains
   a) sodium azide b) sodium bi corbonate c) sodium nitrite d) Sodium peroxide
5. What is jeweler's rouge?
   a) Ferric oxide b) Ferrous oxide c) Ferrous carbonate d) ferric carbonate
6. Itching due to insect bite is caused by
   a) Formic acid b) Acetic acid c) Lactic acid d) Maleic acid
7. Cancer is caused by
   a) uncontrolled mitosis b) uncontrolled meiosis c) rupturing of cell d) loss of immunity of cells
8. A petroleum plant is_____
   a) sugar cane b) maize c) potato d) euphorbia
9. The first transgenic plant is
   a) tobacco b) brinjal c) paddy d) wheat
10. The ozone layer is present in
    a) Mesosphere b) Thermosphere c) Stratosphere d) Ionosphere

GENERAL STUDIES

11. In which of the following market forms, a firm does not exercise control over price?
    a) Monopoly b) Perfect competition c) Oligopoly d) Monopolistic competition
12. Which Indian Armed Force did conduct the 'Prasthan' structured exercise recently?
    a) Indian Navy b) Indian Army c) Indian Air Force d) All of these
13. India and China signed the 'Panchsheel Pact' in the year
    a) 1944 b) 1954 c) 1964 d) 1974
14. Which forest is also referred to as "Monsoon Forests"?
    a) Montane Forests b) Tropical Deciduous Forests c) Mangrove Forests d) Tropical Evergreen Forests
15. Who did win the 1st Olympic medal in badminton from India?
    a) Saiyad Modi b) Prakash Padukone c) Pulella Gopichand d) Saina Nehwal
16. Which Veda depicts the information about the most ancient Vedic age culture?
    a)Rig Veda b) Yajurveda c) Atharvaveda d) Samaveda
17. Who presented Rs 3.27 lakh crore budget in Karnataka in July 2023?
    a) Siddaramaiah b) Basavaraj Bommai c) D. K. Shivakumar d) Tejasvi Surya
18. In the year 2022, total how many persons have been honoured with Padma Awards?
    a) 128 persons b) 18 persons c) 04 persons d) 34 persons
19. Which of the following country is not a member of SAARC?
    a) Nepal b) Maldives c) China d) Afghanistan
20. Which one of the following is an indicative of the quality of teaching?
    a) Period of maintaining peace in the classroom b) Standard of questions raised by students in the classroom
    c) Standard of answers replied by students in the classroom d) Pass percentage of the students

CURRENT AFFAIRS

21. Kyriakos Mitsotaki has been elected as the Prime Minister of which country?
    [A] France [B] Greece [C] South Korea [D] Japan
22. Which bloc has conducted a joint military drill named 'Solidarity Exercise'?
    [A] EU [B] G-20 [C] ASEAN [D] BIMSTEC
23. Which institution released a report titled 'Compliance Status of Coal-Based Power Plants'?
    [A] NITI Aayog [B] World Economic Forum [C] Centre for Science and Environment [D] UNEP
24. 'Kharchi Puja' is observed in which state/UT?
    [A] Tripura [B] Assam [C] West Bengal [D] Odisha
25. Which state/UT is associated with 'Swarnim Himalaya' campaign?
    [A] Assam [B] Uttarakhand [C] Himachal Pradesh [D] West Bengal
26. Mars Atmosphere and Volatile EvolutioN (MAVEN) spacecraft is associated with which space agency?
    [A] ISRO [B] NASA [C] CAN [D] JAXA
27. India recently signed an agreement to establish strategic partnership with which country?
    [A] Egypt [B] Myanmar [C] Afghanistan [D] Sri Lanka
28. Who was awarded 'BET Lifetime Achievement Award for 2023'?
    [A] A R Rahman [B] Busta Rhymes [C] Bob Dylan [D] Jennifer Lopez

29. An important variety of pineapple called Queen Pineapple is grown in which state?

 [A] West Bengal   [B] Tripura   [C] Assam   [D] Odisha

30. Which city is the host of the 'ODI Cricket World Cup 2023'?

 [A] Chennai   [B] Mumbai   [C] Ahmedabad   [D] Kolkata

QUANTITATIVE APTITUDE

31. Two candidates contested an election. One of them got 64% of the votes and won by 434 votes. What was the total number of votes polled?

 a) 1550   b) 1345   c) 1680   d) 1684

32. There are two inlets A and B connected to a tank. A and B can fill the tank in 32 h and 28 h, respectively. If both the pipes are opened alternately for 1 h, starting with A, then in how much time (in hours, to nearest integer) will the tank be filled?

 a) 22   b) 30   c) 36   d) 24

33. A speaks the truth 5 out of 7 times and B speaks truth 8 out of 9 times. What is the probability that they contradict each other in stating the same fact?

 a) 1/7   b) 1/9   c) 1/4   d) 1/3

34. If the areas of two similar triangles are in the ratio 196 : 625, what would be the ratio of the corresponding sides?

 a) 14 : 25   b) 13 : 20   c) 14 : 20   d) 13 : 25

35. What is the total surface area of a pyramid whose base is a square with side 8 cm and height of the pyramid is 3 cm? (In cm^2)

 a) 169   b) 121   c) 144   d) 184

TEST OF REASONING

36. Find the odd man out.   41, 43, 47, 53, 61, 71, 73, 81

 a) 41   b) 61   c) 71   d) 81

37. Insert the missing number. 7, 26, 63, 124, 215, 342, (....)

 a) 391   b) 421   c) 481   d) 511

38. Find the missing number in the following series? 3, 5, 5, 19, 7, 41, 9, ?

 a) 71   b) 61   c) 79   d) 69

39. A father told his son, "I was as old as you are at present at the time of your birth". If the father's age is 38 years now, the son's age five years back was:

 a) 14   b) 19   c) 33   d) 38

40. The average of runs of a cricket player of 10 innings was 32. How many runs must he make in his next innings so as to increase his average of runs by 4 ?

 a) 76   b) 79   c) 85   d) 87

தமிழ்

41. இளமைப் பெயர் மரபுப்பிழை நீக்கியது - 'யானை'

 அ.குஞ்சு ஆ.பிள்ளை இ.குட்டி ஈ.கன்று

42. பொருந்தாச் சொல்லைக் கண்டறிக.

 அ.அமுதமொழி   ஆ.அடிமலர் இ.பூவிரல்ஈ.முத்துப்பல்

43. அழுக்காறுடையான் - எதிர்ச்சொல் தருக.

 அ.பொறாமை உடையவன்   ஆ.தூய்மை உடையவன் இ.பொறாமையற்றவன்   ஈ.தூய்மையற்றவன்

44. இந்தியாவில் முதன் முதலாகத் தொழிலாளர் சங்கத்தைச் சென்னையில் துவக்கியவர்?

 அ.மறைமலையடிகள்   ஆ.திரு.வி.கல்யாணசுந்தரனார்   இ.வையாபுரி   ஈ.ந.மு.வேங்கடசாமி

45. தட்சிணசித்திரம் என்ற நூலுக்கு உரை எழுதியவர் யார்?

 அ.கருணாகரத் தொண்டைமான்   ஆ.மகேந்திரவர்மன   இ.இராசராசன   ஈ.குலசேகரபாண்டியன்

46. தெ.பொ.மீனாட்சி சுந்தரனார் சிலப்பதிகாரம் பற்றி எழுதிய கட்டுரை?

 அ.குடிமக்கள் காப்பியம்   ஆ.தமிழ்க்காதல்   இ.தமிழர்திருமணம்   ஈ.வீரச்சுவை

47. பொருத்துக.

 அ.நட்சத்திரக்குழந்தைகள்   - 1.கல்கி   ஆ.கணையாழியின் கனவு   - 2.பி.எஸ்.ராமையா

 இ.பிரபந்த கானம் - 3.ந.பிச்சமூர்த்தி   ஈ.கொலுபொம்மை 4.மௌனி

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

48. 'அறுவர்க் கிளைய நங்கை' இறைவனை ஆடல் கண்டருளிய நங்கை எனப்படுபவள் யார்?

 அ.மாரியம்மன்   ஆ.துர்க்கை   இ.திருமகள்   ஈ.பிடாரி

49. தே - ஓரெழுத்து ஒரு மொழிக்குரிய பொருளைத் தேர்ந்தெடுத்து எழுதுக.

 அ.கடவுள்   ஆ.தலைவன்   இ.அரசன்   ஈ.கள்வன்

50. தமிழ்நாட்டில் உப்பு சட்டங்களை மீறியதற்காக அபராதம் கட்டிய முதல் பெண்மணி ---- ஆவார்.

 அ.ருக்மணி லட்சுமிபதி   ஆ.அம்புஜம்மாள்   இ.லட்சுமிசெகல்   ஈ.மூவலூஸர் இராமாமிர்தம்

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EVERYDAY SCIENCE 1.A   2.C   3.D   4.A   5.A   6.A   7.A   8.D   9.A   10.C
GENERAL STUDIES   11.B 12.A 13.B   14.B   15.D 16.A 17.A   18.A 19.C 20.B
Source: https://testbook.com/objective-questions/mcq-on-teaching-aptitude--5eea6a0a39140f30f369db4a
CURRENT AFFAIRS   21.B 22.C 23.C   24.A 25.C   26.B 27.A 28.B 29.B 30.C

21. Kyriakos Mitsotakis has achieved a majority and has been re-elected for a second term as the Prime Minister of Greece. New Democracy, led by Mitsotakis, secured over 40 percent of the votes, guaranteeing them a minimum of 158 seats out of the total 300 seats in parliament, based on the preliminary count of approximately 96 percent of the votes.

22. Exercise' is a joint military drill involving the ASEAN nations -Indonesia, Vietnam, Malaysia, Brunei and the Philippines. This year, Indonesia holds the rotating chair of the regional bloc. The military exercise has been planned amid the tensions with China.

23. A report titled "Compliance Status of Coal-Based Power Plants" was released recently by the Delhi-based non-profit Centre for Science and Environment (CSE). The report reveals that as of April 2023, a mere 5 percent of the India's coal-based thermal power generation capacities had implemented the Flue Gas Desulfurization (FGD) mechanism.

24. The Historical 'Kharchi Puja' started at the revered fourteen gods temple in Khayerpur. The event brought together devotees from various locations, symbolizing the revival of age-old customs and traditions. Kharchi Puja is a festival celebrated in Tripura and is performed in Agartala in July or August. The festival is centred around the worship of Chaturdasa Devata, the ancestral deity of the Tripuri people.

25. Swarnim Himalaya campaign is organized to remove plastic waste from the Himalayan region. The campaign has been initiated by the team 'Healing Himalaya'. It was organized in partnership with the Himachal Pradesh Environment, Science and Technology Department, Forest department, Himachal Pradesh Police, and the civic body of Shimla.

26. By utilizing NASA's Mars Atmosphere and Volatile EvolutioN (MAVEN) spacecraft's Imaging Ultraviolet Spectrograph (IUVS) instrument, planetary scientists studied the Martian atmosphere and observe surface characteristics in extraordinary detail. The IUVS instrument aboard MAVEN is capable of measuring wavelengths ranging from 110 to 340 nm, which fall beyond the range of wavelengths visible to the human eye.

27. India and Egypt have signed an agreement establishing a strategic partnership between the two nations. The strategic partnership between the two countries will encompass four key components, namely political, defense, and security cooperation, economic engagement, collaborative efforts in the fields of science and academia, as well as cultural exchanges and fostering people-to-people connections.

28. American rapper Busta Rhymes was awarded the BET Lifetime Achievement Award for 2023. Throughout his career, Busta Rhymes has released a total of nine studio albums, all of which have received praise from critics. Busta Rhymes has received widespread recognition for his contributions to hip hop. He has been honored with 12 Grammy Awards nominations. It is presented by the Black Entertainment Television (BET) network and has been held since 2001.

29. International Pineapple Day is celebrated on June 27th each year to honor and appreciate the tropical fruit. One of the finest varieties of pineapple called Queen Pineapple is particularly grown in Tripura. Another famous variety of pineapple that is grown in the state is Queue.

30. The International Cricket Council (ICC) announced the schedule for the 2023 men's ODI cricket world cup. The 50-over men's cricket will commence on 5 October at the Narendra Modi Stadium in Ahmedabad. India is set to host Pakistan after seven years for a cricket match.

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

31. a) 1550   Let the total votes be Y. One gets 64 % Y and the other gets 36 % Y votes.
           Given, if the one won by 434 votes, then64 % Y– 36 % Y= 434.
           That is 64 Y / 100 – 36 Y /100 = 434   Hence, Y = (434 x 100) / (64 – 36) = 43400 / 28 =1550

32. b) 30   A's Capacity 1/32 per hour and B's Capacity 1/28 per hour.
           Operating alternatively, we get the capacity of both per two hour 1/32 + 1/28.
           That is, (32+28) / 32 x 28 per two hours. Hence, in two hours, both pipes capacity is (32 x 28) / 60 = 15.
           That is, 2 x 15 hours = 30 hours approximately.

33. d) 1/3   We can obtain the required probability of contradicting each otherby multiplying the probabilities
           of A speaking truth and B speaking false or B speaking truth and A speaking false. A speaks truth
           by 5 / 7 and B speaks 8 / 9.   Probability of contradiction of each other is
           = 5 / 7 x (1 – 8 / 9) + (1 – 5 / 7) x (8 / 9)= (5 / 7 x 1 / 9) + (2 / 7 x 8 / 9) = 5 / 63 + 16 / 63 = 21 / 63 = 1 / 3.

34. a) 14 : 25 The ratio of the area of two similar triangles is equal to the square of the ratio of any pair of
           the corresponding sides of the similar triangles.
             So, corresponding sides of triangle = square root of 196 / square root of 625 = 14 / 25.

35. c) 144 cm^2 If "P" is the base perimeter, "l" is the slant height, and "B" is the base area, then the total surface area of the regular
           pyramid formula is given by (½)Pl + B Square units. Here side of a square is 8 cm. So, P = 4 x 8 = 32 cm.
            Base area is area of a square. That is, B = 8 x 8 = 64 cm^2
            Given that height 3 cm. Slant height l = square root of $(4^2 + 3^2)$ = square root of 25 = 5 cm
            Hence, total surface area = (1 / 2 x 32 x 5) + 64 = (16 x 5) + 64 = 80 + 64 = 144 cm^2

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

36. d) Each of the numbers are prime number except 81.
37. d) Numbers are $(2^3$ - 1)=8-1, $(3^3$ - 1)=27-1, $(4^3$ - 1)=63, $(5^3$ - 1)=125-1, $(6^3$ - 1)=216-1, $(7^3$ - 1)=343-1 etc.
        So, the next number is $(8^3$ - 1) = (512 - 1) = 511
38. a) First series: 3, 5, 7, 9   Second series: 5, 19, 41, ?
        Difference of Second series are 14, 22, 30 etc, Next term is 41+30i.e. equal to 71.
39. b) Let the son's present age be x years. Then, difference of father's and son's present age = Son's present age
        38 - x = x   ⇔2x=38   ⇔x=19 So, the son's age five years back was, x−5=19−5=14 years
40. a) Average = total runs / no.of innings = 32 So, total = Average x no.of innings = 32 x 10 = 320.
     Now increase in avg = 4runs. So, new avg = 32+4 = 36runs
     Total runs = new avg x new no. of innings = 36 x 11 = 396, Runs made in the 11th inning = 396 - 320 = 76

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

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EVERYDAY SCIENCE

1. Diamond and graphite are both entirely made of -----------element
   a) Carbon   b) silver   c) gold   d) oxygen
2. The car's airbags are packed with -------------- compound
   a)Sodium Chloride   b) sodium azide   c) Sodium sulphate   d) Nitrogen gas
3. The touchscreens on mobile phones utilize the principles of -----------------
   a)Capacitance   b)transistor   c) Diode   d) optics
4. Why does a black board appears black in colour ?
   a) It reflects black colour b) It absorbs black colour   c) It reflects all colours   d) It absorbs all the colours
5. Apple contains -------- air, that is why it floats on water
   a)50%   b) 75%   c)25%   d) 35%
6. The largest flower in the world is ----------------
   a) Rafflesia   b)Titan arums   c)Magnolia   d) Watermeal
7. Who is the father of zoology.
   a) Aristotle   b) Charles Darwin   c) Carl Linnaeus   d) Jean-Baptiste Lamarck
8. Octopuses have--------- number of hearts.
   a) Four   b)Three   c) Two   d) One
9. The world's first computer mouse was made up of --------------
   a) wooden   b) plastic   c)polymer   d) Glass
10. Which is the highest memory?
    a) Yottabyte   b) Terabyte   c) Zettabyte   d) Exabyte

GENERAL STUDIES

11. Name the country known as the Land of the Rising Sun?
    A) Japan   B) Narway   C) China   D) Indonesia
12. Who was the first astronaut?
    A) Yuri gagarin   B) Rakesh Sharma   C) Kalpana Chawla   D)Sunita Williams
13. Who is known as Father of Indian Constitution?
    A) B. R. Ambedkar   B) R.Rajendra Prasadh   C) J.L.Nehru   D) M.K.Gandhi
14. Martyrs' Day is celebrated every year on?
    A) 30th January   B) 30th August   C) 30th April   D) 15th August
15. Gir National Park in Gujarat is famous for?
    A) Rhinoceros   B) Elephants   C) Tigers   D) Lions
16. What crop is famously grown in the region of Darjeeling?
    A) Oil palm   B) Tea   C) Sugarcane   D) Coffee
17. In which year did the massacre of Jallianwala Bagh occur?
    A) 1909   B) 1911   C) 1919   D) 1929
18. Which site of the Harappan civilization is known as the 'Mound of the Dead'?
    A) Mohenjodaro   B)Harappa   C) Lothal   D) Rakhigarhi
19. Which Sikh Guru got the Golden Temple of Amritsar built?
    A) Guru Amar Das   B) Guru Ramdas   C) Guru Arjan Dev   D) Guru Hargovbind
20. Who became the first woman president of the United Nations General Assembly ?
    A) Vijaya Lakshmi Pandit   B)Sarojini Naidu   C) Annie Besant   D) Sublakshmi

CURRENT AFFAIRS

21. Which technology company has launched 'Threads' app?
    [A] Amazon   [B] Meta   [C] Google   [D] Microsoft
22. Which state/UT launched 'Integrated Water Resources Action Plan-2023-25'?
    [A] Rajasthan   [B] Kerala   [C] Haryana   [D] Odisha
23. The Child Helpline 1098 is set to be consolidated with which helpline?
    [A] 100   [B] 101   [C] 112   [D] 1091
24. Who was awarded 'BET Lifetime Achievement Award for 2023'?
    [A] A R Rahman   [B] Busta Rhymes   [C] Bob Dylan   [D] Jennifer Lopez
25. Who received the 'Elephant Family environmental award'?
    [A] Kartiki Gonsalves   [B] A R Rahman   [C] Resul Pookutty   [D] Gulzar
26. Which Union Ministry launched the 'eSARAS mobile App'?
    [A] Ministry of Rural Development [B] Ministry of MSME [C] Ministry of Power [D] Ministry of External Affairs
27. Which city is the host of the 'ODI Cricket World Cup 2023'?
    [A] Chennai   [B] Mumbai   [C] Ahmedabad   [D] Kolkata
28. The decrease in yields of Tomato recently in India is attributed to which of the following?
    [A] EL Nino   [B] Tomato mosaic virus   [C] Land mining in western Ghats   [D] Loss of soil fertility

29. India's first women's Kabaddi league was inaugurated in which city?
    (a) New Delhi   (b) Dubai   (c) Kolkata   (d) Doha
30. Where was the "AI for Good global summit" held?
    [A] Geneva   [B] New Delhi   [C] Los Angeles   [D] Perth

QUANTITATIVE APTITUDE

31. A train is going at a speed of 180 km/hr. In m/sec its speed is
    a) 15 m/sec   b) 30 m/sec   c) 40 m/sec   d) 50 m/sec
32. A bank gives 6% SI on deposits. Find the amount to be deposited to earn an interest of Rs. 45 in one year.
    a) 450   b) 750   c) 1000   d) 800
33. If x : y = 3 : 5 then (5x+3y) : (15x-2y) is
    a) 7:6   b) 6:7   c) 3:5   d) 5:3
34. The mean mark of 100 students was found to be 40. Later on it was found that a score of 53 was misread as
    83. Find the correct mean corresponding to the correct score.
    a) 39.7   b) 3970   c) 3.97   d) 397
35. The average of first 100 natural numbers is
    a) 55   b) 50.5   c) 51.5   d) 50

TEST OF REASONING

36. Which word does not belong in the following group?
    a) Square   b) Circle   c) Triangle   d) Sphere
37. Complete the series   3165, 195, 255, 285, 345, ?
    a)390   b)420   c)435   d)375
38. If A = 1, B = 2, C = 3, ... , Z = 26, what is the value of the word "LOGIC"?
    a) 63   b) 46   c) 53   d) 43
39. Arrange the following words in logical order: (1) Winter   (2) Spring   (3) Summer   (4) Fall
    a) 4, 1, 2, 3   b) 2, 3, 1, 4   c) 1, 2, 3, 4   d) 3, 2, 1, 4
40. R is the son of Q. S is the daughter of R. T is the brother of Q. How is S related to T?
    a) Sister   b) Niece   c) Daughter   d) None of the above

தமிழ்

41. திரிபுரம் எரித்த விரிசடைக் கடவுள் எந்தச் சங்கத்தின் புலவர்?
    அ)முதற்சங்கம்   ஆ)இடைச்சங்கம்   இ)கடைச்சங்கம்   ஈ)நான்காம் சங்கம்
42. களவழி நாற்பது என்னும் நூலில் உள்ள பாடல்கள் எத்தனை?
    அ)100   ஆ)102   இ)40   ஈ)45
43. சீறாப்புராணத்தில் உள்ள காண்டங்கள் எத்தனை ?
    அ)3   ஆ)4   இ)5   ஈ)6
44. இராவண காவியத்தின் ஆசிரியர் யார்?
    அ)புலவர் குழந்தை   ஆ)சுத்தானந்த பாரதியார்   இ)பரஞ்சோதி முனிவர்   ஈ)புகழேந்திப் புலவர்
45. திருநாவுக்கரசர் பிறந்த ஊர் எது?
    அ)திருவாமூர்   ஆ)திருவாதவூர்   இ)பிரம்மபுரம்   ஈ)திருநாவலூர்
46. நாலாயிர திவ்ய பிரபந்தத்தில் உள்ள பாடல்களின் எண்ணிக்கை யாது?
    அ)4001   ஆ)3776   இ)1296   ஈ)1137
47. 'அங்கயற்கண்ணியும் ஆலவாய் அண்ணலும்' இலக்கணக்குறிப்புத் தருக.
    அ)உம்மைத்தொகை   ஆ)வினைத்தொகை   இ)எண்ணும்மை   ஈ)உவமைத்தொகை
48. 2023ஆம் ஆண்டிற்கான யுவபுரஸ்கார் சாகித்திய அகாடமி விருது பெற்ற நூல் எது?
    அ)மரநாய் (சக்தி)   ஆ)நட்சத்திரவாசிகள்(கார்த்திக் பாலசுப்பிரமணியன்)
    இ)தனித்திருக்கும் அரளிகளின் மதியம் (பி.காளிமுத்து)   ஈ)திருக்கார்த்தியல்(ராம்தங்கம்)
49. 'குமரன் கட்டடம்' என்பதில் 'கட்டடம்' என்பதன் இலக்கணக்குறிப்பு யாது?
    அ) இடுகுறிச் சிறப்புப் பெயர்   ஆ)இடுகுறிப் பொதுப்பெயர்   இ)காரணப் பொதுப்பெயர்   ஈ)காரணச் சிறப்புப் பெயர்
50. 'ஏ' என்னும் ஒரெழுத்து ஒரு மொழியின் பொருள் யாது?
    அ)அம்பு   ஆ)ஆற்றல்   இ)இசை   ஈ)ஈரம்

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

21. B [Meta] Meta, the parent company of Facebook, Instagram, and WhatsApp newly developed Threads app, intended to rival Twitter. Recently, it was announced that it will not be released in the European Union (EU) at present. Regulatory concerns are preventing the app from being launched in the EU.

22. C [Haryana] The Haryana Government recently launched the integrated Water Resources Action Plan-2023-25. It will help strengthen water conservation efforts in the state. The plan aims to meet the twin challenges of water depletion and waterlogging. 3.14 lakh acres of area will be covered under crop diversification, which will save 1.05 lakh crore litres (7.6 percent) of water.

23. C [112] The Ministry of Women and Child Development had announced the consolidation of the existing child helpline (1098), operated by Childline, with the women's helpline and Emergency Response Support System (112), as part of its "One Nation, One Helpline" initiative. Andhra Pradesh, Arunachal Pradesh, Ladakh, Puducherry, Goa, Dadra and Nagar Haveli and Daman and Diu, Mizoram, Gujarat, and Bihar are set to launch the integrated child helpline service by the end of this month, making it the first of its kind in India.

24. B [Busta Rhymes] American rapper Busta Rhymes was awarded the BET Lifetime Achievement Award for 2023. Throughout his career, Busta Rhymes has released a total of nine studio albums, all of which have received praise from critics. Busta Rhymes has received widespread recognition for his contributions to hip hop. He has been honored with 12 Grammy Awards nominations. It is presented by the Black Entertainment Television (BET) network and has been held since 2001.

25. A [Kartiki Gonsalves] King Charles III and Queen Camilla presented the Elephant Family environmental award to Indian conservationists: filmmaker Kartiki Gonsalves behind Oscar-winning documentary 'The Elephant Whisperers' and the Real Elephant Collective (TREC) of 70 Adivasi artists. 'The Elephant Whisperers' won the 2023 Academy Award for Best Documentary Short Film earlier this year.

26. A [Ministry of Rural Development] The Deendayal Antyodaya Yojna- National Rural Livelihoods Mission (DAY-NRLM) has introduced the eSARAS mobile App, aimed at enhancing marketing assistance for products created by women belonging to Self-help Groups (SHGs). This app will contribute to the existing eCommerce endeavors focused on promoting SHG-produced goods. DAY-NRLM is a flagship scheme of Ministry of Rural Development.

27. C [Ahmedabad] The International Cricket Council (ICC) announced the schedule for the 2023 men's ODI cricket world cup.The 50-over men's cricket will commence on 5 October at the Narendra ModiStadium in Ahmedabad. India is set to host Pakistan after seven years for a cricket match.

28. B [Tomato mosaic virus] Tomato mosaic virus (ToMV) is a plant pathogenic virus. It is found worldwide and affects tomatoes and many other plants. Tomato growers in Maharashtra and Karnataka have attributed the decrease in yields to the tomato mosaic virus (ToMV). ToMV is a member of the Virgaviridae family and shares a close relationship with the tobacco mosaic virus (TMV).

29. B [Dubai] India's first Women's Kabaddi League (WKL) was inaugurated in Dubai. After the success of Men's Pro Kabaddi League, this is a new beginning for women athletes. The league consists of eight teams, with a total of 96 players, each representing an Indian state. The winning team will be awarded a prize of approximately 0.5 million dirhams (equivalent to INR 1 crore).

30. A [Geneva] The International Telecommunication Union, an agency of the United Nations, hosted the AI for Good global summit in Geneva from July 4-7. During the event, a panel of robots and their creators were invited to attend a press conference to answer questions from reporters on job automation, artificial intelligence (AI) leadership and collaboration with humans etc.

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

31. d) Convert km/h to m/sec we multiply the given number by 5 / 18
Convert m/sec to km/h we multiply the given number by 18/5 = 180 * (5/18); = 10*5 gives 50 m/sec.

32. b) Simple interest : 6 %, Simple interest of one year = Rs 45 (Time one year), Principle amount (P) = ?
I = PTR / 100; 45 = (P * 1 * 6) / 100 (cross multiplication)
45 000 = P * 6 ; P= 45000 / 6 = **750** (Rupees)

33. b) = (5*3+3*5) : (15*3 − 2*5) = (15+15) : (45 − 10) = 30 : 35 (if divided the numbers by 5) we get = 6:7

34. a) mean score of students =40, ∴Total score =100×40=4000 / 100
[∵ Mean =Sum of the score of all students (Total score) / Number of students]
Difference in one score by mistake =83−53=30, Actual total scores =4000 – 30 = 3970

35. b) Arithmetic mean refers to the average amount in a given group of data. So arithmetic mean can be calculated by adding the first term and the last term of the series and then dividing the sum by 2. In the given series the first term is 1 and the last term is 100, so the Arithmetic mean = (1+100) /2 = 101 /2 = 50.5
Actual mean =Actual total scores Number of students=3970 / 100 = 39.70

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

36. d) Sphere : All the given options are two-dimensional shapes except for "Sphere," which is a three-dimensional shape

37. c) 435: Each number of given series is 15 multiplied by a prime number.
15*11, 15*13, 15*17, 15*19, 15*23. So, Missing number is 15*29 = 435.

38. b) 46 L + O + G + I + C 12 + 15 + 7 + 9 + 3 = 46

39. d) 3, 2, 1, 4. The seasons follow a cyclical order. First comes summer, then fall, followed by winter, and finally spring.

40. b) Niece R is the son of Q, and S is the daughter of R. Therefore, S is the granddaughter of Q. T is the brother of Q, and hence, S is the niece of T.

தமிழ் விடைகள்: 41. அ)முதற்சங்கம் 42. இ)40 43. அ)3 44. அ)புலவர் குழந்தை
45. அ)திருவாமூர் 46. ஆ)3776 47. இ)எண்ணும்மை
48. ஈ)திருக்கார்த்தியல்(ராம்தங்கம் 49. இ)காரணப் பொதுப் பெயர் 50. அ)அம்பு

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EVERYDAY SCIENCE

1. Chemical responsible for shedding tears while chopping an onion is………
   A) Propanethiol S-oxide   B) Phosphorous oxide   C) Ammonia   D) Nitrous Oxide
2. Which metal will not be detected or difficult to detect in postmortem?
   A) Mercury(Hg)   B) Lead(Pb)   C) Arsenic(Ar)   D) Thallium (Th)
3. Mission life of Chandrayan 3 (Lander & Rover) is one lunar day, which is equal to how many days in our Earth ?
   A) 22.5   B) 24.3   C) 26.2   D) 29.5
4. Which physics law has been used to check the over speeding of vehicles by police?
   A) Newton's Laws of Motion   B) Doppler Effect   C) Law of Reflection   D) Ampere's Law
5. Who first isolated the chemical signal responsible for phototropism?
   A) Drawin   B) Paal   C) Boysen Jensen   D) F.W. Went
6. Which spices have shown good anticancer and anti-inflammatory properties?
   A) Cardomom   B) Pepper   C) Cloves   D) Garlic
7. What does stomach acid mostly consists of?
   A) Acetic acid   B) Ascorbic acid   C) Hydrochloric acid   D) Oxalic acid
8. What is meant by "ZOONOSIS"?
   A) Animal disease transmitted to man   B) Diseases of man transmitted to animals
   C) Parasites of man transmitted to animals   D) Viral diseases of man transmitted to animals
9. Which mathematical theorem had used by Kepler in his space research?
   A) Phythagoras   B) Binomial   C) Arithmetic   D) Green's
10. Who among the following is considered as the 'Father of Artificial Intelligence'?
    A) Charles Babbage   B) Lee De Forest   C) John McCarthy   D) JP Eckert

GENERAL STUDIES

11. What is the pH value of the human body?
    a. 9.2 to 9.8   b. 7.0 to 7.8   c. 6.1 to 6.3   d. 5.4 to 5.6
12. Which of the given devices is used for counting blood cells?
    a. Hmelethometer   b. Spyscometer   c.Hemocytometer   d.Hamosytometer
13. Which of the given cities is located on the bank of river Ganga?
    a. Patna   b. Gwalior   c.Bhopal   d. Mathura
14. Digestion of food in human beings begins in which part of the alimentary canal?
    a. Liver   b. Kidney   c. Mouth   d. Large intestine
15. Which of the given industries uses limestone as a raw material?
    a. Paper   b.Cement   c.Textile   d.Leather
16. In 2019, which popular singer was awarded the Bharat Ratna award?
    a. Lata Mangeshkar   b. Asha Bhosle   c. Bhupen Hazarika   d. Manna Dey
17. The world's nation 5G mobile network was launched by which country?
    a. Japan   b.Asia   c. South Korea   d. Malaysia
18. What is the full form of DRDL?
    a.Differential Research and Documentation Laboratory   b.Department of Research and Development Laboratory
    c. Defense Research and Development Laboratory   d. None of the above
19. The father of Indian missile technology is _____?
    a. Dr Homi Bhabha   b. Dr Chidambaram   c. Dr U.R. Rao   d. d. Dr A.P.J.Abdul Kalam
20. Which of these is the small-scale industry in India?
    a. Jute industry   b. Paper Industry   c. Textile Industry   d. Handloom Industry

CURRENT AFFAIRS

21. Which state Police was recently honored with the 'President's color'?
    [A] Tamil Nadu   [B] Kerala   [C] Odisha   [D] Karnataka
22. Suresh N Patel was appointed as the head of which institution recently?
    [A] Central Bureau of Investigation   [B] Central Vigilance Commission
    [C] Election Commission of India   [D] Supreme Court of India
23. Which Indian leader's home is conferred the London's 'Blue plaque honour'?
    [A] Dr B R Ambedkar   [B] Dadabhai Naoroji   [C] Gopal Krishna Gokhale   [D] Surendranath Banerjee
24. Which Indian leader is associated with the 'Purna Swaraj' idea and 'Bande Mataram' newspaper?
    [A] Subash Chandra Bose   [B] Aurobindo Ghosh   [C] Gopala Krishna Gokhale   [D] Dadabai Naoroji
25. Which leader has been honoured with the '2022 Liberty Medal'?
    [A] Imran Khan   [B] Narendra Modi   [C] Volodymyr Zelenskyy   [D] Fumio Kishida
26. What is the name of the type of electricity tariff which includes lower tariff during daytime and higher rates during peak hours?
    [A] Differential time-based tariff   [B] Dynamic Electricity tariff
    [C] Static Electricity Tariff   [D] Peak power Tariff
27. What is Aspartame, which was mentioned by the World Health Organization (WHO)?
    [A] Sugar Substitute   [B] Human Enzyme   [C] Anti AIDS Drug   [D] Bird Disease

28. Ministry of Defence entered into a contract with which company for Medium Refit with Life Certification \ (MRLC) of INS-Shankush?
[A] Mazagon Dock Shipbuilders [B] Hindustan Aeronautics Limited
[C] Bharat Electronics Limited [D] Defence Research and Development Organisation

29. Which organization has released the 'Ozone-UV bulletin'?
[A] FAO [B] UNEP [C] WMO [D] NASA

30. Which Union Ministry announced a project to install Transponders in sea vessels?
[A] Ministry of Defence [B] Ministry of Fisheries, Animal Husbandry and Dairying
[C] Ministry of Jal Shakti [D] Ministry of External Affairs

QUANTITATIVE APTITUDE

31. In an examination out of 480 students, 85% of the girls and 70% of the boys are passed. How many boys appeared in the examination, if total percentage was 75%.
a. 320 b. 340 c. 360 d. 370

32. From the solid cube having side of 20 cm, how many number of small cubes having side 5 cm can be formed?
a. 46 b. 64 c. 56 d. 48

33. 7 men can complete a work in 52 days. In how many days will 13 men finish the same work?
a. 26 b. 27 c. 28 d. 29

34. Mean of 100 observations is found to be 40. At the time of computation two items were wrongly taken as 3 and 72 instead of 30 and 27. Find the correct Mean.
a. 39.82 b. 40.18 c. 41 d. 42.5

35. Find the total area of 14 squares whose sides are 11 cm, 12 cm , ….. 24cm.
a. 4415 sq.cm. b. 4055 sq.cm. c. 4155 sq.cm. d. 4515 sq.cm.

TEST OF REASONING

36. Look at this series: 22, 21, 23, 22, 24, 23, ... What number should come next?
a) 22 b)24 c)25 d)26

37. Which word does NOT belong with the others?
a) noun, b)preposition c)punctuation d)adverb

38. Join these parts to make a meaningful sentence: 1. killed 2. a 3. Jaswant 4. bear 5. wild
a) 31254 b)53124 c)23145 d)43125

39. 589654237, 89654237, 8965423, 965423, ?
a) 58965 b)65423 c)89654 d)96542

40. Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl?
a) Nephew b)Uncle c)Brother d)Son-in-law

தமிழ்

41. கீழ்க்காணும் பொருளுக்குரிய திருக்குறளை தெரிவு செய்க.
சிறிய காரியங்களிலே முயன்று வெற்றி பெறுவதை விட பெரிய காரியங்களிலே முயன்று தோல்வி அடைவது சிறப்பு
அ. கான முயலெய்த அம்பினில் யானை பிழைத்தவேல் ஏந்தல் இனிது
ஆ. ஆகாறு அளவிட்டி தாயினுங் கேடில்லை போகாறு அகலாக் கடை
இ. கேட்டினும் உண்டோர் உறுதி கிளையுரை நீட்டி அளப்பதோர் கோல்
ஈ. உள்ளுவ தெல்லாம் உயர்வுள்ளல் மற்றுத தள்ளினுந் தள்ளாமை நீர்த்து

42. 'மாரிவறம் கூறின் மன்னுயிர் இல்லை மன்னுயிர் எல்லாம் மண்ணாள் வேந்தன்'-என யார்? யாருக்கு உரைத்தது?
அ. மணிமேகலா தெய்வம் உதயகுமரனுக்கு ஆ. சுதமதி உதயகுமரனுக்கு
இ. தீவதிலகை மணிமேகலைக்கு ஈ. மணிமேகலை உதயகுமரனுக்கு

43. "ஊரெல்லாம் கூடி ஒலிக்க அழுதிட்டுப் பேரினை நீக்கிப் பிணம் என்று பேரிட்டு"
எனச் சாவு உணர்த்தும் நிலையாமையை எடுத்துக் கூறியவர் யார்?
அ. அப்பர் ஆ.திருமூலர் இ.சுந்தரர் ஈ.மாணிக்கவாசகர்

44. கீழ்க்காணும் கூற்றுகளுக்குரிய பொருத்தமான பொருளைத் தெரிவு செய்க.
1. பலகுடை நீழலும் தங்குடைக்கீழ்க் காண்பர் 2. இரவார் இரப்பார்க்கு ஒன்று ஈவர்
அ. இவ்விரண்டு வரிகளும் அரசரின் பெருமையைப் பேசுகின்றன.
ஆ. இவ்விரண்டு வரிகளும் வள்ளலின் பெருமையைப் போற்றுகின்றன.
இ. இவ்விரண்டு வரிகளும் உழவரின் பெருமையைப் பேசுகின்றன.
ஈ. இவ்விரண்டு வரிகளும் பணிவுள்ளவரின் பண்பைப் போற்றுகின்றன.

45. "நாடாகொன்றோ காடாகொன்றோ அவ்வழி நல்லை வாழிய நிலனே"
மேற்காணும் புறநானூற்றுப் பாடல் உலக மேம்பாட்டிற்கு யாரின் ஒழுக்கத்தை அடிப்படையாகக் கூறுகின்றது?
அ. பெண்டிர் ஆ.ஆடவர் இ.அரசர் ஈ.அந்தணர்

46. சங்காலத்தில் தமிழகம் முழுவதிலும் கொண்டாடப்பட்ட பண்டிகை எது?
அ.ஆடிப்பூரம் ஆ.ஓணம் இ.நவராத்திரி ஈ.திருவாதிரை

47. "கவறும் கழகமும் கையும் தருக்கி
இவறியார் இல்லாகி யார்" - இக்குறள் யாருக்கு அறிவுரை கூறுகிறது?
அ.காவலர்கள் ஆ.தூதுவர்கள் இ.அமைச்சர்கள் ஈ.வேந்தர்கள்

48. பொருத்துக.
அ.திருமுருகாற்றுப்படை-1.முடத்தாமக்கண்ணியார் ஆ. பொருநராற்றுப்படை-2.நக்கீரர்
இ. சிறுபாணாற்றுப்படை-3.கபிலர் ஈ. குறிஞ்சிப்பாட்டு - 4.நல்லூர் நத்தத்தனார்
அ. 1 3 2 4 ஆ. 1 2 4 3 இ. 2 1 4 3 ஈ. 3 2 1 4

49. பொருந்தா இணையைக் கண்டறிக.
அ. பிரதாப முதலியார் சரித்திரம்-வேதநாயகம் பிள்ளை ஆ. சுகுணசுந்தரி-நடேசசாஸ்திரி
இ. கமலாம்பாள் சரித்திரம்-ராஜம்அய்யர் ஈ. பத்மாவதி சரித்திரம்-மாதவையா

50. கீழே உள்ள நூலாசிரியர்களுடன் பொருத்தி,கொடுக்கப்பட்டுள்ள குறியீடுகளை கொண்டு சரியான விடையைத் தேர்ந்தெடுக்கவும்.
அ. உலகம் சுற்றும் தமிழன்- 1.தேசியக்கவி ஆ. ஞானரதம் - 2. சுவாமிநாதன்
இ. தண்ணீர் தண்ணீர்- 3. வெ.இராமலிங்கம் ஈ. என்கதை- 4. ஏ.கருப்பன்
அ.1 2 3 4 ஆ. 2 1 3 4 இ. 3 4 2 1 ஈ.4 1 2 3

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

21. Correct Answer: A [Tamil Nadu] Vice President Venkaiah Naidu recently awarded the prestigious President's colour to Tamil Nadu Police. The Vice President presented the award on behalf of the supreme commander of the armed forces of India. 'The President's Colours' is the highest honour presented to any Military or State police in recognition of its exceptional service of at least 25 years to the nation.

22. Correct Answer: B [Central Vigilance Commission] Vigilance Commissioner Suresh N Patel was appointed as the Central Vigilance Commissioner. He has been working as the acting Central Vigilance Commissioner (CVC) since June 2022. Central Vigilance Commission is a probity watchdog founded in 1964. It works under the jurisdiction of Government of India. Suresh N Patel was sworn in as the chief by President Droupadi Murmu.

23. Correct Answer: B [Dadabhai Naoroji] The London home of the Indian leader Dadabhai Naoroji is set to get a 'Blue plaque', an honour reserved for notable personalities who have lived and worked in London. Dadabhai Naoroji is the first Asian to be elected a British Member of Parliament. The Blue Plaque scheme was established in 1866, and is run by English Heritage at present.

24. Correct Answer: B [Aurobindo Ghosh] Aurobindo Ghosh was the first proponent of 'Purna Swaraj' more than 20 years before the Indian National Congress' declaration in 1930. The 150th year of his birth anniversary was celebrated recently. Sri Aurobindo was born as Aurobindo Ghosh on August 15, 1872. He was a philosopher, poet, journalist and revolutionary. He wrote about the idea of complete independence in his newspaper Bande Mataram, and developed an approach to achieve that goal that included non-cooperation, passive resistance and use of swadeshi goods.

25. Correct Answer: C [Volodymyr Zelenskyy]   Ukrainian President Volodymyr Zelenskyy has been named for this year's 'Liberty Medal' by the National Constitution Center. He was selected for his heroic defense of liberty in the face of Russian tyranny. Zelenskyy has been serving as the nation's President since May 2019, has also been the recipient of awards such as the Ronald Reagan Freedom Award and the John F. Kennedy Profile in Courage Award as well as honors from other governments.

26. Correct Answer: A [Differential time-based tariff] The government has indicated its intention to introduce differential time-based electricity tariffs, involving lower prices during an eight-hour period in the daytime and higher rates during peak power consumption hours. The Ministry of Power recently announced amendments to the Electricity (Rights of Consumers) Rules, 2020, which include the incorporation of provisions for time-of-day (ToD) tariffs.

27. Correct Answer: A [Sugar Substitute] The World Health Organization's cancer research division has intended to classify the widely used sugar substitute aspartame as "potentially carcinogenic to humans.". The official declaration is expected in the upcoming months. Aspartame is an artificial non-saccharide sweetener 200 times sweeter than sucrose and is commonly used as a sugar substitute in foods and beverages.

28. Correct Answer: A [Mazagon Dock Shipbuilders] The Ministry of Defence has recently entered into a contract, with Mazagon Dock Shipbuilders Limited (MDL) in Mumbai for the Medium Refit with Life Certification (MRLC) of the Sub-Surface Killer (SSK) Class submarine named "INS Shankush." The overall cost of the project amounts to Rs. 2725 Cr. This is the second HDW-class submarine that will undergo MRLC with upgrade of the first one, currently in progress, to be completed by August.

29. Correct Answer: C [WMO] After a gap of seven years, the World Meteorological Organization (WMO) reintroduced the ozone-UV bulletin, demonstrating the consistent recuperation of the ozone layer. The annual bulletin will offer up-to-date details regarding global stratospheric ozone levels and ultraviolet radiation.

30. Correct Answer: B [Ministry of Fisheries, Animal Husbandry and Dairying] Transponders are wireless tracking devices that function by utilizing radio frequencies. The national rollout project for vessel communication and support systems, which includes the installation of transponders, has been granted approval by the central government. This initiative aims to equip around 100,000 fishing vessels across coastal states and Union territories of India.

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

31. a: Total number of students = 480
   percentage of total students passed = 75% of total student = (75 x 480)/100 = 360 students
   Let the number of boys be X
   Then, 70% of X + 85% of (480 - X) = 360 => [(70 x X)/100] + [85 x (480 - X)]/100 = 360
   70X – 85X + 40800 = 36000 => 40800 - 36000 = 85X – 70X =>4800 = 15X   X = 4800/15 = 320
   There are 320 boys who appeared for the examination.

32. b: Edge of cube = 20 cm, Volume of cube = a^3 => volume of cube = 20x20x20
   volume of each small cube = 5x5x5, number of cubes= (20x20x20)/(5x5x5) = 64

33. c: If 7 men complete a work in 52 days is as written as
   7 men one day work = 1/52 => 1 men one day work = 1/(7x52)
   => 13 men one day work = 13/(7x52)= 1/28 => 13 men complete a work in 28 days

34. a: Mean = Sum of number / Total numbers, Sum of 100 numbers = 40 x 100 = 4000
   So mistake is in the sum which reads 3 and 72 instead of 30 and 27, so the new sum of number is
   = 4000 - 3 - 72 + 30 + 27 = 3982, So the correct mean = 3982/100 = 39.82

35. d: To find the total area of 14 squares we have to apply the formula for sum of squares of n natural numbers.
   Sum of squares of n natural numbers = n(n+1)(2n+1)/6
   Total area of 14 squares = 11^2 + 12^2 + ……….…+ 24^2
   We have to find sum of squares from 1 upto 24 and subtract the sum of squares of nos from 1 to 10
   = (1^2 + 2^2 + ……….…+ 24^2) – (1^2 + 2^2 + ……….…+ 10^2)
   When we substitute in the formula =[24(24+1)(2∗24+1)]\6 – [10(10+1)(2∗10+1)]\6
    =[24(25)(49)]\6 – [10(11)(21)]\6 = 4900 – 385 = 4515 **cm²**

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

36. c) 25 In this simple alternating subtraction and addition series; 1 is subtracted, then 2 is added, and so on.

37. c) punctuation   The noun, preposition, and adverb are classes of words that make up a sentence.
   Punctuation belongs in a sentence, but punctuation is not a class of word.

38. a) 31254   "Jaswant killed a wild bear."

39. d) 96542   The digits are removed one by one from the beginning and the end in order alternately.

40. c) Brother   The father of the boy's uncle → the grandfather of the boy and daughter of the
   grandfather → sister of father

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

EVERYDAY SCIENCE

1. The temperature which has the same reading on both Fahrenheit and Celsius scales is
   a) 40°   b) -40°   c) -34°   d) -140°
2. The weight of an object on the moon is equal to _____ of its weight on the earth.
   a) $1/6^{th}$ b) $1/8^{th}$ c) $1/4^{th}$ d) $1/10^{th}$
3. In MRI instrument, which one of the following is used?
   a) Sound wave   b) 'X'-ray   c) Ultra-sound wave   d) Magnetic wave
4. In the rainy season, doors get swelled up due to
   a) Transpiration   b) Imbibition   c) Diffusion   d) Respiration
5. The explosion of crackers is an example of:
   a) Combustion   b) Precipitation   c) Decomposition   d) Evaporation
6. The hormone responsible for ripening of fruit is called?
   a) Ethylene   b) Cytokinin   c) Auxin   d) ABA
7. The food conducting tissue of a plant is ___
   a) Phloem   b) Xylem   c) Collenchyma   d) Parenchyma
8. Coir is the commercial product of coconut's ___
   a) Mesocarp   b) Pericarp   c) Endocarp   d) Endosperm
9. Which of the following vector is responsible for transmitting the parasite causing filariasis?
   a) Anopheles mosquito b) Aedes mosquito   c) Tse Tse fly   d) Culex mosquito
10. A salivary gland situated in the cheek region is
    a) Sublingual gland   b) Submandibular gland c) Parotid gland   d) Tonsil

GENERAL STUDIES

11. Who was the founder of the Kisan Mazdoor Praja Party?
    a) Achariya Menon   b) J.B. Kirplani Menon   c) Acharya J.B. Kirplani   d) Jai Prakash Narayanan
12. Who made the statement: "Worship of God through the service of the poor"?
    a) Mahatma Gandhi   b) Mother Therasa   c) Swami Vivekananda   d) Ramakrishna Paramahamsa
13. Colemanite is an important mineral of
    a) Boron   b) Aluminium   c) Gallium   d) Indium
14. World Meteorological Organisation headquarters is located in
    a) Geneva   b) Taiwan   c) Pentagon   d) Manila
15. The Vice President of India is elected by
    I. The members of the Lok Sabha   II. The members of the Rajya Sabha   Out of these
    a) Neither I nor II   b) I only   c) II only   d) Both I and II
16. The World Forestry Day is observed on
    a) 8th March   b) 15th March   c) 21st March   d) 22nd March
17. Which one of the following is known as the World's eternal city?
    a) Athens   b) Berlin   c) Cairo   d) Rome
18. The programme of Sarva Shiksha Abhiyan is aimed at
    a) providing free food for the poor people   b) providing education for children
    c) providing financial assistance to unemployed   d) providing free medical aid to the poor
19. Who said that, "Prime Minister is the captain of the ship of the State"?
    a) Munro   b) Ramsay Muir   c) Jennings   d) H.J.Laski
20. The Chairman of the Sarkaria Commission was
    a) Ranjith Singh Sarkaria   b) Rajiv Singh Sarkaria   c) Sivaraman Sarkaria   d) Ramesh Singh Sarkaria

CURRENT AFFAIRS

21. Which Union Ministry released the 'Digital Portal of CRCS'?
    a) Ministry of Cooperation   b) Ministry of Home Affairs   c) Ministry of Finance   d) Ministry of MSME
22. Which institution released the publication titled '75 Endemic Birds of India'?
    a) NITI Aayog   b) Zoological Survey of India   c) UNEP   ) Ministry of Environment, Forest and Climate Change
23. 'One District One Product' launched its collaboration with which Union Ministry?
    a) Ministry of Rural Development   b) Ministry of MSME
    c) Ministry of External Affairs   d) Ministry of Women and Child Development
24. When is the 'International Day against Drug Abuse and Illicit Trafficking' observed?
    a) June 21   b) June 26   c) July 1   d) July 5
25. In which city, Union Minister for Railways, Communications, Electronics & Information Technology, Ashwini Vaishnaw has recently (in August 23) Inaugurated India's first Three Dimensional (3D) Printed Post Office?
    a) Bengaluru   b) Mumbai   c) Chennai   d) New Delhi
26. What was the theme of world Photography Day 2023 that was observed across the globe on 19th August 2023?
    a) Transcending the boundaries of language   b) Be Nice
    c) pandemic lockdown through the lens   d) Landscapes

27. Name the bank that has recently (in August 2023) Launched Jeevan Dhara, a unique savings bank account designed for pensioners.
   a) Canara Bank   b) bank of Baroda   c) bank of India   d) Indian Bank
28. Who has been recently appointed as the director of the National Assessment and Accreditation Council (NAAC)
   a) Sivakumaran   b) GanesanKannabiran   c) M. Arivazhagan   d) G. Aghila
29. What was the theme of 9th National Handloom Day 2023 observed across Indian on 7th August 2023?
   a) Promote handloom in India   b) Festival: "YUVAAH – UtsahNaya Bharat Ka"
   c) Handloom, an Indian Legacy   d) Handloom for Sustainable Fashion
30. Name of the bank that has recently established 10 start – up cells across various cities in India.
   a) Bank of Baroda   b) Indian Bank   c) Canara Bank   d) UCO Bank

QUANTITATIVE APTITUDE

31. In an election between two candidates ,one got 55% of the total valid votes, 20% of the votes were in valid. 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
32. The sum of ages of 5 children born at the intervals of 3 years each is 50 years. What is the age the youngest child?
   a) 4 years   b) 8 years   c) 10 years   d) none of these
33. A fruit seller had some apples. He sells 40% apples and still has 420 apples .Originally he had:
   a) 588 apples   b) 600 apples   c) 672 apples   d) 700 apples
34. At present, ratio between the ages of Arun and Deepak is 4:3 After 6 years, Arun's age will be 26 years. What is the age of Deepak at present?
   a) 12 years   b) 15 years   c) 17 years   d) 21 years
35. Fin the odd man out :   2,4,6,7,8,10………
   a) 7   b) 4   c) 8   d) None

TEST OF REASONING

36. In a certain code ROSE is written as #43$ and FIRST is written as 5*#37. How is STORE written in that code?
   A) 473#   B)473#   C) 374#   D)347#
37. Mark the odd pair:
   A. Nice - Good   B. Beautiful – Ugly   C. Praise – Blame   D. Fat – Thin
38. Pavan walked 30m towards North, took a left turn and walked 40m. He again took a left turn and walked 30m. How far is he from the starting point?
   A. 100meters   B. 60meters   C. 70meters   D. 40meters   E. Data inadequate
39. 1, 1, 5, 49, 11, 169, 19, ?
   A. 256   B. 289   C. 324   D. 361
40. 'AB' is related to 'EF' in the same way as 'IJ' is related to _____
   A. MN   B. KL   C. OP   D. LM

தமிழ்

41. பாட்டும் தொகையும் என்று அழைக்கப்படுவது ---------?
   அ. சங்க இலக்கியம் ஆ. சங்க மருவிய இலக்கியம் இ. காப்பிய இலக்கியம் ஈ. பக்தி இலக்கியம்
42. மதுரையில் திரமிள சங்கத்தை நிறுவியவர் யார்?
   அ. நந்தீஸ்வரர்   ஆ. வச்சிரநந்தி   இ. தனநந்தர்   ஈ. சந்திரகுப்தர்
43. சேரமான் கணைக்கால் இரும்பொறையை விடுவிப்பதற்காக எழுதப்பட்ட நூல் எது?
   அ. கார்நாற்பது   ஆ. களவழி நாற்பது   இ. இன்னா நாற்பது   ஈ. இனியவை நாற்பது
44. தைரியநாதர் என அழைக்கப்பட்டவர் யார்?
   அ. கான்ஸ்டாண்டியுஸ்   ஆ. ஜான் பால்   இ. கால்டுவெல்   ஈ. கிரு͂ணபிள்ளை
45. மரப்பேழை என்பதன் இலக்கணக் குறிப்பு யாது?
   அ. இருபெயரொட்டுப் பண்புத்தொகை ஆ.வேற்றுமை விரி இ.வினைத்தொகை ஈ.வினையாலணையின் பெயர்
46. 'டிசுமுறுளுநுசு' என்பதற்கு இணையான தமிழ்ச்சொல் எது?
   அ. உலவி   ஆ. நச்சுநிரல்   இ. கோப்புகள்   ஈ. சொடுக்கு
47. 2000 ஆம் ஆண்டில் விமர்சனங்கள் மதிப்புரைகள் பேட்டிகள் என்னும் நூலுக்காக சாகித்ய அகாதெமி விருது பெற்றவர் யார்?
   அ. தி.க. சிவசங்கரன்   ஆ. நாஞ்சில் நாடன்   இ. இமையம்   ஈ. சு. சமுத்திரம்
48. பொருத்தமில்லா ஒன்றைத் தேர்க.
   அ. காதுகள்   ஆ. சாய்வு நாற்காலி   இ. அன்பளிப்பு   ஈ. கொடியடுப்பு
49. 'கீழடி' என்னும் ஊர் தற்போது எந்த மாவட்டத்தில் இடம் பெற்றுள்ளது?
   அ. மதுரை   ஆ. சிவகங்கை   இ. இராமநாதபுரம்   ஈ. தேனி
50. கீழ்க்கண்டவற்றுள் இரண்டாம் வேற்றுமைத் தொகை எது?
   அ. திரைப்படம் பார்த்தான் ஆ. பாடத்தைப் படித்தான்   இ. கல்லூரி சென்றான் ஈ. அவளது புத்தகம்

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

21. a) Recently, Union Home Minister and Minister of Cooperation inaugurated the digital portal of the Central Registrar of Cooperative Societies (CRCS) office in Pune, Maharashtra, marking a significant step towards digitizing the operations of Multi State Cooperatives. As a result, all tasks related to cooperative societies, including opening new branches, expansion to other states, and audits, will now be conducted online.

22. b) A recent publication by the Zoological Survey of India (ZSI) points out that about 5% of birds found in the country are endemic and are not reported in other parts of the world. The publication, titled 75 Endemic Birds of India, was recently released on the 108th foundation day of the ZSI. India is home to 1,353 bird species, which represents approximately 12.40% of global bird diversity. Of these 1,353 bird species, 78 (5%) are endemic to the country.

23. a) One District One Product (ODOP) program, an initiative under the Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce and Industry, launched its collaboration with the Ministry of Rural Development in New Delhi. DPIIT, Rural Development Ministry jointly launched 'One District One Product' Wall at SARAS Ajeevika Store.

24. b) The United Nations General Assembly in 1987, decided to observe June 26 as International Day against Drug Abuse and Illicit Trafficking. This year's theme is 'People first: Stop stigma and discrimination; strengthen prevention'. Every year, United Nations Office on Drugs and Crime (UNODC) issues the World Drug Report.

25. a) Mr. Ashwini Vaishnaw, Union Minister for Railways, Communications, Electronics & Information Technology,Inaugurated India's first Three Dimensional (3D) Printed Post Office located in Bengaluru's Cambridge layout, Karnataka.The new post office was created using 3D concrete printing Technology by Larsen and Toubro construction. The technology had been approved by the building materials and Technology promotion council and the structural design of the post office was validated by Indian Institute of Technology Madras (IIT – M)

26. d) i) World Photography Day commemorates the announcement of the Daguerre type process of photography by the French government as a Free gift to the world. ii) World Photography week was introduced in 2022. It is a 2-week worldwide celebration of photography, beginning a week before world photography day, on 12th August, and running a week after through 26th August

27. a) Canara Bank launched Canara Jeevan Dhara, a unique savings bank account designed for pensioners and those who are planning for retirement, including all the employees who retired on a voluntary basis or standard retirement procedures.
Variants:
i) Under this scheme, the bank provides two variants based on the amount of pension credit.
ii) Diamonds account is designed for pension credits of up to 50,000
iii) Platinum account caters to pension credits exceeding 50,000

28. b) Prof. GanesanKannabiranis an alumnus and a senior Professor of Information Systems at the National Institute of Technology, Tiruchirappalli with over 30 years of experience in teaching, research and administration. He has served as Dean of Research & Consultancy and Director in-charge of NIT Trichy. He has successfully led the Indian Institute of Information Technology Sri City Andhra Pradesh (An Institute of National Importance), from 2018 to 2023 as its founding Director. He has made significant contributions including implementation of NEP 2020 by incorporating skill development, holistic education, inclusive education, credit transfer, etc in to the education system.

29. d) i) August 7, 2023, Marks the 9th National handloom day with the theme of "Handloom for Sustainable Fashion"
ii) The first National handloom Day was inaugurated on 7th August 2015 by Prime Minister Narendra Modi at the centenary hall of Madras University in Chennai, Tamil Nadu.

30. b) Indian Bank, a public sector undertaking bank headquartered in Chennai Tamil Nadu
i) These cells aim to cater to specialized banking needs and promotes the growth of the startup ecosystem in India.
ii) The start- up cells have been Set up in Ahmedabad, Bengaluru Coimbatore&Chennai, New Delhi, Gurgaon, Guwahati, Hyderabad, Kanpur, Mumbai.

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

31. A) Number of valid votes = 80% of 7500 = 6000, Valid votes polled by other candidate =45% of 6000 =(45/100)x6000=2700

32. A) Let the ages of children be x, x+3, x+6. x+9, and x+12 years
Then x +(x+3) +(x+6) +(x+9)+(x+12)=50, 5x=20, x=4 Ages of youngest child=4

33. D) Suppose originally he had x apples, Then .(100-40)% of x=420, 60/100x X=420, X=(420x100)/60=700

34. B) Let the present age of Arun and Deepak b 4x years and 3x years respectively .then 4x+6=26
4x=20, x=5 Deepak ages =3x =3x5=15 years

35. A) Odd number =7

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

36. C) As per question, R = #, O = 4, S = 3, E = $, F = 5, I = *, T = 7, STORE = 374#$

37. A) Right side the synonym for left word in option A but rest is antonyms.

38. D) Required Distance = 40meters

39. D) There are two series intermingled in the given series of numbers. Those are 1, 5, 11, 19 and 1 square, 7 square, 13 square and 19 square = 361.

40. A) A - - -(+4) - - - E; B - - -(+4) - - -F, I - - - (+4) - - - M; J - - - (+4) - - - N

தமிழ் விடைகள்:

41.அ.சங்க இலக்கியம் 42.ஆ.வச்சிரநந்தி 43.ஆ.களவழி நாற்பது 44.அ.கான்ஸ்டாண்டியுஸ்
45.அ.இருபெயரொட்டுப் பண்புத்தொகை 46.அ.உலவி 47.அ.தி.க. சிவசங்கரன் 48.ஈ.கொடியடுப்பு
49.ஆ.சிவகங்கை 50.அ.திரைப்படம் பார்த்தான்

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EVERYDAY SCIENCE

1. Which gas is safe and an effective extinguisher for all confined fires?
   A. Nitrogen dioxide　　　B. Carbon dioxide　　C. Sulphur dioxide　　D. Nitrous Oxide
2. What is the SI unit of Pressure?
   A. Pascal　　　B. Joule　　　　　　C. Tesla　　　　　　　　D. Hendry
3. CNG stands for?
   A. Converted Natural Gas　B. Conduced Natural Gas　C. Chemical Neutral Gas　D. Compressed Natural Gas
4. Which of the following is the fluid part of blood?
   A. Plasma　　　B. Platelets　　　C. Blood cells　　　D. Water
5. Which bacteria are responsible for the formation of curd?
   A. Lactic acid bacteria　　B. Lactobacillus acidophillus　C. Lactobacillus aureus　D. Bacillus radicicola
6. Which one of the following vegetable oils is used in the manufacture of paints?
   A. Palm oil　　　　　B. Sunflower oil　　　C. Linseed oil　　　D. Cottonseed oil
7. Deficiency of Vitamin A results in which of the following problems?
   A. Night Blindness　　　B. Scurvy　　　C. Hair Fall　　　D. Rickets
8. Which of the following is the instrument used to measure wind speed?
   A. Anemometer　　　B. Barometer　　　C. Hydrometer　　D. Hygrometer
9. Which substance can be used to melt the ice on the icy roads?
   A. Salt　　　　B. Chlorine　　　C. Carbon dioxide　　D. Water
10. The science of lightning is known as
   A. Aerology　　　　B. Meteorology　　　C. Electeorology　　D. Fulminology

GENERAL STUDIES

11. 'Operation Flood' is also popularly known as
   (A) the Green Revolution (B) the White Revolution (C) the Blue Revolution (D) the Yellow Revolution
12. Which one of the following is the oldest central paramilitary force in India?
   (A) The Central Reserve Police Force　　　(B) The Border Security Force
   (C) The Assam Rifles　　　　　(D) The Commando Battalion for Resolute Action
13. Which one of the following is a part Deccan Plateau?
   (A) Aravalli Hills　　　(B) Karbi Anglong Hills　　(C) Shivalik Hills　　(D) Vindhyan Hills
14. The Custodian of the Constitution of Indians
   (A) The prime Minister of India　　　(B) The Supreme Court of India
   (C) The president of India　　　(D) The Parliament of India
15. India's biggest nuclear research reactor is named
   (A) Dhruva　　　(B) Purnima　　　(C) Cirus　　　(D) Apsara
16. Via which of the following amendments, the term 'Socialist' was inserted in Preamble of Indian Constitution?
   (A) 38th Amendment Act　(B) 42nd Amendment Act　(C) 59th Amendment Act　(D) 52nd Amendment Act
17. Who is appointed as an ad hoc judge of Supreme Court of India?
   (A) President　　　(B) Vice President　(C) President with advice of Council of Ministers
   (D) Chief Justice of the Supreme Court with Permission of President
18. All revenues received by the Government of India by taxes, e.g. Income Tax, Central Excise, Customs and other receipt are kept in which among the following?
   (A) Consolidated Fund of India　(B) Contingency Fund of India　(C) Public account of India　(D) Reserve Bank of India
19. The Union or India consists of _____ States and Union Territories
   (A) 27:8　　　(B) 28:7　　　(C) 29:9　　　(D) 28:8
20. The inspiration of 'Liberty, Equality and Fraternity' was derived from
   (A) American Revolution　(B) French Revolution　(C) Russian Revolution　(D) None of the above

CURRENT AFFAIRS

21. Which state hosted the awareness program named 'Anu Awareness Yatra – 2023'?
   [A] Tamil Nadu　　　[B] Kerala　　　[C] Andhra Pradesh　　　[D] West Bengal
22. Which sports association has been recognised as the official body by the Sports Ministry of India?
   [A] Handball Association of India　　　[B] Silambam Association
   [C] Taekwando Association　　　[D] Ringball Association of India
23. Which Ministry is associated with the 'Mera Gaon Meri Dharohar'?
   [A] Union Culture Ministry　　　[B] Union Defence Ministry
   [C] Union Science and Technology Ministry　[D] Union Rural Development Ministry
24. Which city hosted the 'National Conference on 'Moving Mental Health Beyond Institutions'?
   [A] Mumbai　　　[B] Pune　　　[C] New Delhi　　　[D] Mysuru
25. Asian Development Bank (ADB) inked a deal with India for 'Enhancing Connectivity and Sustainability in Roads Project' for which state?
   [A] Gujarat　　　[B] Assam　　　[C] Bihar　　　[D] Maharashtra
26. When did the Chandrayaan-3 spacecraft perform the second de-boosting maneuver?
   [A] 20th August　　　[B] 19th August　　　[C] 17th August　　　[D] 16th August

27. India's first indigenous e-Tractor Prima ET11 is developed by which institution?

[A] L&T [B] DRDO [C] CSIR [D] IIT Madras

28. Which Indian state is adopting an Early Warning System to reduce Student Dropout?
    [A] Goa [B] Uttar Pradesh [C] West Bengal [D] Odisha

29. Which city is the host of the 'G20 Environment and Climate Sustainability Ministerial Meeting'?
    [A] Chennai [B] Mumbai [C] Gandhi Nagar [D] Sri Nagar

30. Western Tragopan is the state Bird for which Indian State?
    [A] Uttar Pradesh [B] Himachal Pradesh [C] Tamil Nadu [D] Kerala

QUANTITATIVE APTITUDE

31. Find the value for $(0.98)^3 + 3 (0.98)^2 (0.02) + 3 (0.98) (0.02)^2 + (0.02)^3$
    a)2 b)1 c) 0 d) 3

32. Identify the missing number within the series. 20, 30, 25, 35, ? 40
    a)30 b)45 c)35 d)25

33. Find the odd man out. 331, 482, 551, 263, 383, 362, 284
    a)263 b) 383 c) 331 d) 551

34. Dharun purchased 20 dozens of toys at the rate of Rs. 375 per dozen. He sold each one of them at the rate of Rs. 33. What was his percentage profit?
    a)3.5 b)4.5 c)5.6 d)6.5

35. A man wants to sell his scooter. There are two offers, one at Rs. 12,000 cash and the other a credit of Rs. 12,880 to be paid after 8 months, money being at 18% per annum. Which is the better offer?
    a) Rs. 12,000 in cash b) Rs.12,880 at credit c) Both are equally good

TEST OF REASONING

36. If in a certain language, MADRAS is coded as NBESBT, how is BOMBAY coded in that code?
    a. CPNCBX b. CPNCBZ c. CPOCBZ d. CQOCBZ

37. Complete the series 3, 7, 23, 95, ?
    a. 62 b. 128 c. 479 d.575

38. Find odd one out :Brick , Heart , Bridge , Spade , Club
    a. Brick b. Heart c. Bridge d. Spade

39. Arrange the following words in a meaningful sequence : 1. Index 2. Contents 3. Title 4. Chapters 5. Introduction
    a. 3, 2, 5, 4, 1 b. 3, 2, 5, 1, 4 c. 3, 2, 1, 4, 5 d. 5, 1, 4, 2, 3

40. Four students are sitting on a bench in a classroom . Suresh is sitting leftside of Rajeev . Manoj is sitting to the right side of Rajeev . Ravi is sitting between Rajeev and Manoj .Who is sitting in the second position from left hand side in the bench ?
    a. Suresh b. Rajeev c. Ravi d. Manoj

தமிழ்

41. கீழ்க்கண்டவற்றுள் எவை புத்த இலக்கிய நூல் அல்ல?
    அ.நாலடியார் ஆ.பட்டினப்பாலை இ.மணிமேகலை ஈ.குண்டலகேசி

42. திராவிட சமணசங்கத்தை மதுரையில் நிறுவியவர் யார்?
    அ.பூஜ்யபாதா ஆ.பத்ரபாகு இ.வஜ்ரநந்தி ஈ.மகாவீரர்

43. தமிழ்ச்சொல்லைக் கண்டறிக.
    அ.அனுமதி ஆ.ஈசன் இ.குபேரன் ஈ.மணிமுடி

44. தமிழுக்கு அரும்பணி ஆற்றிய அமெரிக்கப் பேராசிரியர்களில் ஒருவர் யார்?
    அ.ஆறுமுகநாவலர் ஆ.ஜோசப்கொன்ஸ்டான் இ.ஜேம்ஸ் பிரங்கா ஈ.ஜி.யு.போப்

45. சட்டம் ஒரு இருட்டறை - அதில் வழக்கறிஞரின் வாதம் ஒரு விளக்கு என்று கூறியவர் ?
    அ.அண்ணா ஆ.காந்தி இ.அம்பேத்கர் ஈ.மு.வ

46. பின்வரும் தொடரில் உள்ள நிகழ்கால வினைமுற்றைத் தேர்வு செய்க.
    அ.பழுத்தபழம் ஆ.பழுக்கும்பழம் இ.பழுக்கின்றது ஈ.பழங்கள் பழுத்தன

47. காடுகளில் வாழ்ந்த மக்கள் விலங்கின் பெயர் கொண்டு அமைந்த ஊரின் பெயர் என்ன?
    அ.ஆட்டையாம்பட்டி ஆ.வேப்பனேரி இ.புலியம்பட்டி ஈ.புலியங்குடி

48. அறிஞர் அண்ணாவின் கவிதைகள் 'தமிழ்ப்பீடம்' என்னும் இதழில் வெளியிடப்பட்டுள்ள ஆண்டு எது?
    அ.2005 ஆ.2004 இ.2003 ஈ.2006

49. வழக்குரைஞுராகவும், இந்துசமய அறநிலைத்துறை அலுவலராகவும் பணியாற்றிய கவிஞர் யார்?
    அ.அப்துல்ரகுமான் ஆ.சிற்பி இ.ந.பிச்சமூர்த்தி ஈ.ஈரோடுதமிழன்பன்

50. பின்வருவனவற்றுள் தவறானதைத் தேர்வு செய்க.
    அ.கம்பர் தேரழுந்தூரில் பிறந்தவர் ஆ.கம்பரை ஆதரித்த வள்ளல் சீதக்காதி
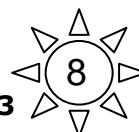   இ.சரசுவதி அந்தாதியை இயற்றியவர் கம்பர் ஈ.கம்பரது காலம் கி.பி12நூற்றாண்டு

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

21. A [Tamil Nadu] An awareness program named "Anu Awareness Yatra – 2023" with the theme of 'Atoms in the service of the nation' was launched at Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam. It is organised in association with the National Council of Science Museum (NCSM), Ministry of Culture, Government of India, Vigyan Bharathi – Arivial Sangam, Tamil Nadu and Indian Association for Radiation Protection.

22. A [Handball Association of India] The Sports Ministry has decided to recognise the Handball Association of India (HAI) as the official body to run the game in the country. Recently the IOA also gave HAI recognition after it agreed to merge with the Handball Federation of India (HFI). India has been preparing for the upcoming Hangzhou Asian Games.

23. A [Union Culture Ministry] Union Home Minister is set to inaugurate a distinctive program called 'Mera Gaon Meri Dharohar' as a significant component of Azadi ka Amrit Mahotsav. This initiative falls under the National Mission on Cultural Mapping and is spearheaded by the Ministry of Culture. The main objective of the project is to culturally map India's 6.5 lakh villages, spanning 29 states and 7 union territories, on a comprehensive virtual platform.

24. C [New Delhi] The National Conference on 'Moving Mental Health Beyond Institutions' was inaugurated recently in New Delhi. The main purpose of the conference is to address the difficulties faced during the execution of the Mental Healthcare Act, 2017, and to engage in thoughtful discussions about the future steps to resolve mental health concerns.

25. C [Bihar] The Asian Development Bank (ADB) and the Government of India inked a deal for a $295 million loan for the implementation of the Enhancing Connectivity and Sustainability in Bihar Roads Project. The loan aims to enhance approximately 265 kilometers of state highways in Bihar with climate and disaster resilient features, alongside incorporating road safety elements.

26. B [19th August] Chandrayaan-3 spacecraft performed the second de-boosting maneuver on 19th August, 2023.

27. C [CSIR] The country's first indigenous e-Tractor Prima ET11 has been developed by the CSIR's Central Mechanical Engineering Research Institute (CMERI), Durgapur. The machine was launched by the Union Minister of State for Science and Technology Dr Jitendra Singh. Dr. Jitendra Singh unveiled a book by the CSIR-Central Institute of Medicinal and Aromatic Plants (CIMAP) and a compendium showcasing 75 technologies developed by CSIR.

28. B [Uttar Pradesh] The Uttar Pradesh government is adopting an "early warning system" inspired by the Netherlands to reduce student dropout rates in schools. The system closely monitors student attendance, and if a student is absent for more than 40 days, educational authorities intervene by contacting parents or guardians to ensure the student's return to school and sustained engagement in their education.

29. A [Chennai] The G20 Environment and Climate Sustainability Ministerial Meeting concluded recently in Chennai. The event concluded without reaching consensus on significant climate-related matters. Crucial topics like transitioning away from fossil fuels remained unresolved during the meeting.

30. B [Himachal Pradesh] The Western Tragopan (Tragopan-melanocephalus) is the Himachal Pradesh's state bird. It has been reported that the species is experiencing habitat loss in certain regions of the country. However, due to the dedicated efforts of the state authorities, there has been a steady rise in the population of this endangered species at the State's Sarahan pheasantry, the conservation breeding center, providing hope for its survival and future expansion.

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

31. a=0.98 b= 0.02 $(a+b)^3 = a^3+3a^2b+3ab^2+b^3$ $(0.98 +0.02)^3 = 1^3 =1$ Answer: B

32. The series follows a pattern where the first number increases by 10 and the second number increases by 5. The third number decreases by 5 and the fourth number increases by 5. Following this pattern, the missing number should be 30. Answer : A

33.   Answer B : In each number except 383, the product of first and third digits is the middle one.

34.   Answer C : Cost Price of 1 toy = Rs. 375 /12 = Rs.31.25
        Selling Price of 1 toy = Rs. 33 .So, Gain = Rs. (33 - 31.25) = Rs. 1.75
        Profit % = (1.75 /31.25 x 100) = 28 /5 % = 5.6 %

35.   Answer A: P. W of Rs. 12,880 due 8 Months = Rs. (12880 x 100) / 100 + (18 x (8/12))
                        = Rs. (12880 x 100) / 112 = Rs. 11500.

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

36. B. CPNCBZ   37. C) 3(*2 +1)→ 7(*3 +2) → 23(*4 +3)→ 95(*5 +4)→ 479.
38. A. Brick   39. A. 3, 2, 5, 4, 1   40. A. Suresh

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

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EVERYDAY SCIENCE

1. Cirrhosis of liver is caused by chronic intake of
   (a) Opium   (b) Tobacco   (c) Alcohol   (d) All of these
2. Which of the following vitamin is required for gonadal function?
   (a) Vitamin A   (b) Vitamin B   (c) Vitamin C   (d) Vitamin D
3. Which of the following is called as 'King of Oil seeds?
   (a) Olive   (b) Castor   (c) Groundnut   (d) Sesame
4. Electroencephalography (EEG) is a study?
   (a) Brain   (b) Heart   (c) Lungs   (d) Liver
5. Bonding present between the carbon atoms in graphite is
   (a) Metallic   (b) Ionic   (c) Covalent   (d) Vander Waal's forces
6. The acid Rain destroys the vegetation, because it contains
   (a) Nitrates   (b) Ozone   (c) Carbon dioxide   (d) Sulfuric acid
7. What is the study of soil called?
   (a) Pomology   (b) Phycology   (c)Pedology   (d) Mycology
8. What do we call the process taking place at constant temperature?
   (a) Adiabatic   (b) Isothermal   (c) Isochoric   (d) isobaric
9. Hydroscope is an instrument that shows changes in:
   (a) Sound under water (b) Atmospheric humidity (c) Density of liquid (d) Elevation of land
10. Which method can be applied to determine purity of a metal?
    (a) Boyle's law   (b) Pascal's law   (c) Archimedes principle (d) Newton's law

GENERAL STUDIES

11. Which of the following is the highest peak in the Eastern Ghats?
    a) Anaimudi   b) Doda Betta   c) Mahendra Giri   d) Kanchenjunga
12. Which is the administrative Headquarter of Lakshadweep?
    a) Kavaratti   b) Nainital   c) Dehradun   d) Musorie
13. The Mahatma Gandhi National Marine Park is located in
    a) Port Blair   b) Rameswaram   c) Pirotan Island   d) Pitti Island
14. Which of the following theme depicted in the Paintings of Ajanta?
    a) Ramayana   b) Mahabharata   c) Jatakas   d) Panchatantra
15. Indian Penal Code came into force in
    a) 1843   b) 1857   c)1862   d) 1870
16. The Committee appointed in 1977 to review working of the Panchayati Raj was chaired by
    a) Balwant Rai Mehta b) Ashok Mehta   c) K. N. Katju   d) Jagjivan Ram
17. Who among the following was the first to invade India ?
    a) Xerxes   b) Alexander   c) Darius-I   d) Seleucus
18. The great silk-route to the Indians was opened by
    a) Kanishka   b) Ashoka   c) Harsha   d) Fa-Hien
19. Name the king who invaded Delhi and plundered the Kohinoor Diamond.
    a) Nadir Shah   b) Firuz Shah   c) Mohammed Shah   d) Mohammed Ghori
20. Who gave the title of 'Sardar' to Vallabhbhai Patel ?
    a) Rajaji   b) Gandhiji   c) Nehru   d) M.A. Jinnah

CURRENT AFFAIRS
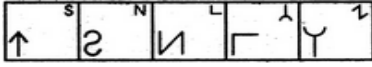
21. Which day declared as 'National Space Day' by cabinet in India?
    a) August 20   b) August 23   c) August 25   d) August 27
22. What is the name of India's first space-based observatory, launched in September 2023?
    a) Arun-L1   b) Surya-L1   c) Kathir-L1   d) Aditya-L1
23. What is the transaction limit for small value digital payments in offline mode, as of September 2023?
    a) Rs 1000   b) Rs 200   c) Rs 500   d) Rs 100
24. Which Ministry is planning to integrate Personalized Adaptive Learning (PAL) into the existing Digital Infrastructure for Knowledge Sharing (DIKSHA) platform?
    a) Ministry of Rural development   b)Ministry of Electronics and Information Technology
    c) Ministry of Home affairs   d)Ministry of Corporative affairs
25. Who was granted the status of a deemed university on September 1, 2023?
    (a) Indian Space Research Organisation (ISRO)
    (b) National Council of Educational Research and Training (NCERT)
    (c) Indian Institute of Technology (IIT)   (d) University Grants Commission (UGC)
26. Archaeologists have unearthed 3,000-year-old priestly tomb in which country?
    a) Peru   b) Argentina   c)Greece   d) Japan
27. Who among the following has been appointed as the first woman CEO and chairperson of the Railway Board in month of September 2023?
    a) Jaya Verma Sinha b) Falguni Nayar   c) Leena Nair   d) Roshni Nadar
28. Who was awarded the 8th Dr. M.S. Swaminathan Award in September 2023?
    a) R. Samiyappan   b) P.V. Satyanarayana c)V.P. Sobha Kumari d)T. Venkatesan

29. Which of the following international financial crises served as a catalyst for the establishment of the G20?
   (a) The Dot-com Bubble (2000) (b) The Asian Financial Crisis (1997)
   (c) The Great Recession (2008) (d)) The European Debt Crisis (2010)
30. As per a new study, which species may swallow roughly 10 million microplastic pieces daily?
   a) Turtle b) Blue Whale c)Cattle d)Frog

QUANTITATIVE APTITUDE

31. How many number of rectangles and squares in an 8 by 8 chess board.
   a) 296, 204 b) 1092, 204 c) 204, 1092 d) 204, 1296
32. On selling 17 balls at Rs. 720, there is a loss equal to the cost price of 5 balls. The cost price of a ball is:
   a)Rs. 45 b)Rs. 50 c)Rs. 55 d)Rs. 60
33. The salaries A, B, C are in the ratio 2 : 3 : 5. If the increments of 15%, 10% and 20% are allowed respectively in their salaries, then what will be new ratio of their salaries?
   a)3 : 3 : 10 b)10 : 11 : 20 c)23 : 33 : 60 d)Cannot be determined
34. The difference between the length and breadth of a rectangle is 23 m. If its perimeter is 206 m, then its area is:
   a)1520 m^2 b)2420 m^2 c)2480 m^2 d)2520 m^2
35. Today is Saturday. After 61 days, it will be:
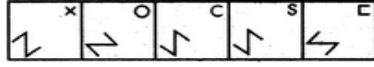   a)Wednesday b)Saturday c)Tuesday d)Thursday

TEST OF REASONING

36. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.(Series)

   Problem Figures: Answer Figures:

   (A)   (B)   (C)   (D)   (E)   (1)   (2)   (3)   (4)   (5)
   a) 1 b) 2 **c) 3** d) 4
37. Choose the alternative which is closely resembles the mirror image of the given combination.(Mirror Images)

   ANS43Q12
   (1) ANƧ4ƐᴅГS (2) SГᴅƐ4ƧИA
   (3) ƧИA4ƐᴅГS (4) ГSᴅƐ4ƧИA

   a) 1 b) 2 c) 3 d) 4
38. Choose the figure which is different from the rest.(Classification)

   (1)   (2)   (3)   (4)   (5)
   a) 1 b) 2 c) 3 d) 4
39. Select a suitable figure from the Answer Figures that would replace the question mark (?).(Analogy)

   Problem Figures: Answer Figures:

   (A)   (B)   (C)   (D)   (1)   (2)   (3)   (4)   (5)
   a) 1 b) 2 c) 3 d) 4
40. Find the number of triangles in the given figure.(Analytical Reasoning)

   a) 8 b) 10 c) 12 d) 14

தமிழ்

41. 'இரும்புக்கடலை' எனஅழைக்கப்படும் நூல் எது?
   அ. பதிற்றுப்பத்து ஆ. புறநானூறு இ.களவழிநாற்புத ஈ. பரிபாடல்
42. ஆற்றுப்படை நூல்கள் எத்தனை?
   அ. நான்கு ஆ. ஐந்து இ. ஆறு ஈ. ஏழு
43. தேம்பாவணியில் எத்தனைபடலங்கள் உள்ளன?
   அ. 36 ஆ. 26 இ. 46 ஈ. 56
44. சீறாப்புராணத்தில் எத்தனைகாண்டங்கள் உள்ளன?
   அ. மூன்று ஆ. நான்கு இ. ஐந்து ஈ. ஆறு
45. நான்காம் தமிழ்ச் சங்கத்தைநிறுவியவர் யார்?
   அ. அரசஞ்சண்முகனார் ஆ. பொன். பாண்டித்துரை இ. உ.வே. சாமிநாதர் ஈ. சி.வை. தாமோதரனார்
46. நூறுஆண்டுகளுக்குமேலாகவரும் இதழ் எது?
   அ. கணையாழி ஆ. தமிழ்நாடு இ. செந்தமிழ் ஈ. தாமரை
47. பாரதியார் பணியாற்றியபள்ளிஎது?
   அ. மதுரைசேதுபதிஉயர்நிலைப் பள்ளி ஆ. எட்டையபுரம் அரசுமேல்நிலைப் பள்ளி
   இ. அமெரிக்கன் கல்லூரி மேல்நிலைப் பள்ளி ஈ. தூத்துக்குடிஅரசுமேல்நிலைப் பள்ளி
48. சிங்கப்பூரின் தற்போதையஅதிபர் எந்த இனத்தைச் சார்ந்தவர்?
   அ. தமிழ் ஆ. மலாய் இ. சீனம் ஈ. சிங்களம்
49. 'இலக்கணக் குறிப்பு'என்பதன் இலக்கணக் குறிப்புயாது?
   அ. இரண்டாம் வேற்றுமைவிரி ஆ. இருபெயரொட்டுப் பண்புத் தொகை இ. விளித்தொடர் ஈ. உரிச்சொற்றொடர்
50. சீறினான் என்பதன் வேர்ச்சொல் யாது?
   அ. சீறி ஆ.சீறு இ. சீறிய ஈ. சீறியவன்

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

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

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

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

31. B Chess board consists of 9 horizontal 9 vertical lines. A rectangle can be formed by any two horizontal and two vertical lines. Number of rectangles = $^9C_2 \times {}^9C_2$ = 1296. For squares there is one 8 by 8 square four 7 by 7 squares, nine 6 by 6 squares and like this Number of squares on chess board = $1^2 + 2^2 \ldots .. 8^2$ = 204
Only rectangles = 1296-204 = 1092.

32. D (C.P. of 17 balls) - (S.P. of 17 balls) = (C.P. of 5 balls), C.P. of 12 balls = S.P. of 17 balls = Rs.720.
    C.P. of 1 balls= Rs.720/12=RS. 60

33. C Let A = 2k, B = 3k and C = 5k.   A's new salary=(115/100) of 2k = =(115/100) 2k=(23/10)k
     B's new salary=(110/100) of 3k = =(110/100) 3k=(33/10)k
     C's new salary=(120/100) of 5k = =(120/100) 5k=6 k, New Ratio= (23/10)k: (33/10)k: 6 k = 23 : 33 : 60

34. D We have: (l - b) = 23 and 2(l + b) = 206 or (l + b) = 103.
    Solving the two equations, we get: l = 63 and b = 40.   Area = (l x b) = (63 x 40) m^2 = 2520 m^2.

35. D Each day of the week is repeated after 7 days.   So, after 63 days, it will be Saturday.
    After 61 days, it will be Thursday.

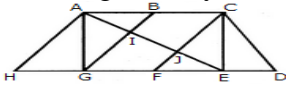**TEST OF REASONING :**   36.C   37.B   38.A   39.C   40.D

36. **C** In each step, element at the upper-right position gets enlarged, inverts vertically and reaches the lower-left corner; the existing element at the lower-left position, is lost and a new small element appears at the upper-right position.

37. B

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

39. C The half-shaded leaf rotates 135°ACW and the unshaded leaf rotates 135°CW.

40. D The figure may be labelled as shown.

    The simplest triangles are AHG, AIG, AIB, JFE, CJE and CED i.e. 6 in number.
    The triangles 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.

தமிழ் விடைகள்:

41. அ. பதிற்றுப்பத்து   42. ஆ. ஐந்து   43. அ. 36   44. அ. மூன்று
45. ஆ. பொன்.பாண்டித்துரை   46. இ. செந்தமிழ்   47. அ. மதுரைசேதுபதிஉயர்நிலைப்பள்ளி
48. அ. தமிழ்   49. ஆ. இருபெயரொட்டுப் பண்புத்தொகை   50. ஆ. சீறு

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EVERYDAY SCIENCE

1. Plants receive their nutrients mainly from
   a) chlorophyll b) atmosphere c) light d) soil
2. Which of the following is the main nitrogenous waste in humans
   a) ammonia b) urea c) uric acid d) ammonium nitrate
3. Most highly intelligent mammals are
   a) whales b) dolphins c) elephants d) kangaroos
4. Bamboo is classified as
   a) buch b) tree c) weed d) grass
5. Potato is a modified form (out growth) of
   a) root b) stem c) fruit d) leaf
6. An alloy is a homogeneous mixture of
   a) two solids b) two liquids c) two metals d) two non-metals
7. The cleansing action of soaps and detergents is due to
   a) internal friction b) high hydrogen bond c) surface tension d) viscosity
8. Heat from the sun reaches the Earth by
   a) convection b) conduction c) radiation d) reflection
9. The tendency of a process to occur naturally is called
   a) momentum of the reaction b) spontaneity of the reaction c) equilibrium of the reaction d) none of these
10. A man presses more weight on earth at
    a) sitting position b) standing position c) lying position d) none of these

GENERAL STUDIES

11. Food Safety and Standard Authority of India (FSSAI) has approved which animal as a 'food animal'?
    [A] Himalayan Yak [B] Buffalo [C] Mule [D] Camel
12. Which company along with World Economic Forum (WEF) launched 'Aquapreneur' Global Fresh Water Innovation Challenge?
    [A] Tata Motors [B] HCL [C] Amazon [D] Meta
13. Pradhan Mantri Awas Yojana (Urban) is implemented by which Union Ministry?
    [A] Ministry of Housing and Urban Affairs [B] Ministry of Home Affairs
    [C] Ministry of Finance [D] Ministry of Social Justice and Empowerment
14. Which state implements the Kalaignar Magalir Urimai Thogai (women's basic income) scheme?
    [A] Kerala [B] Tamil Nadu [C] Odisha [D] Karnataka
15. Which of the following is a type of energy which comes from fossil?
    [A] Petroleum [B] Wood [C] Solar energy [D] Tidal waves
16. As per Census 2011, which of the following pairs of cities recorded the highest population?
    [A] Jaipur and Kolkata [B] Mumbai and Delhi [C] Kolkata and Delhi [D] Delhi and Bengaluru
17. In which of the following periods, copper was first used?
    [A] Paleolithic [B] Mesolithic [C] Neolithic [D] Chalcolithic
18. Who was the last king of the Gupta Dynasty?
    [A] Kumar Gupta [B] Puru Gupta [C] Vishnu Gupta [D] Skanda Gupta
19. What are workers called when they move from one job to another?
    [A] Seasonal Unemployment [B] Frictional Unemployment
    [C] Classical Unemployment [D] Voluntary Unemployment
20. What is the best indicator of economic development of any country?
    [A] Per capita income [B] per person expense [C] calorie consumption [D] women empowerment

CURRENT AFFAIRS

21. The famed Hoysala temples in Karnataka have been added to the UNESCO World Heritage list. What is Hoysala Temple's UNESCO World Heritage Site number in India?
    a) 37th b) 39th c) 40th d) 42st
22. Who among the following gold medal in the women's 10-metre air rifle event at the ISSF World Cup 2023 in Brazil?
    a) WANG Zhilin b) Oceanne Muller c) Jiale Zhang d) Elavenil Valarivan
23. Who among the following has been appointed as permanent CEO of New York-based international publishing group Penguin Random House?
    a) Shantanu Narayen b) Sanjay Mehrotra c) Nihar Malaviya d) Jay Chaudhry
24. In September 2023, which of the following countries signed three MoUs with India including one on cooperation in Digital Payment mechanisms?
    a) Sri Lanka b) Bangladesh c) Saudi Arabia d) Germany
25. Former Dennis Austin, who recently passes away, co-created _____.
    a) Google Drive b) MS Excel c) MS Word d) PowerPoint

26. Which of the following organizations has been honored with the Safety Innovation Award 2023?
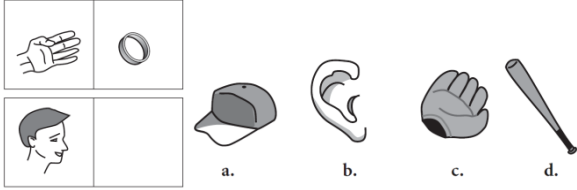
a) Rail India Technical and Economic Service b) Technology Development Board
c) National Water Resources Council d) None of the above

27. The theme of International Day of Democracy 2023 is _____.
    a) COVID-19 A spotlight on Democracy b) Empowering the next generation
    c) Participation d) Solution for a changing world

28. In September 2023,who among the following was awarded the 8th Dr. M.S. Swaminathan Award?
    a) R.Samiyappan b) PV Satyanarayana c) VP Sobha Kumari d) Akshay

29. In September 2023, which of the following metro cities started selling 'Tourist Smart Cards' from its selected Metro stations through dedicated counters?
    a) Bangalore b) Chennai c) Delhi d) Jaipur

30. Which is set to become the first country to engage in commercial deep sea mining?
    a) India b) Japan c) Norway d) USA

QUANTITATIVE APTITUDE

31. How many times do the hands of a clock coincide in a day?
    a) 20 b) 21 c) 22 d) 24

32. January 1, 2023 was Monday. What day of the week lies in January 1, 2024?
    a) Monday b) Tuesday c) Wednesday d) Sunday

33. Directions: Insert the missing number: 1, 8, 27, 64, 125, 216, (.....)
    a) 354 b) 343 c) 392 d) 245

34. A train moves with a speed of 108 Kmph. Its speed in meters per seconds is:
    a) 10.8 b) 18 c) 30 d) 38.8

35. Find the odd man out: 2, 5, 10, 50, 500, 5000
    a) 0 b) 5 c) 10 d) 5000

TEST OF REASONING

36. Look at this series: 5.2, 4.8, 4.4, 4, . . . What number should come next?
    a) 3 b) 3.3 c) 3.5 d) 3.6

37. Which word does **NOT** belong with the others?
    a) Parsley b) Dasil c) Mayonnaise d) Dill

38. Elated is to despondent as enlightened is to
    a) Aware b) Ignorant c) Miserable d) Tolerant

39. Find the word that names a necessary part of the underlined word. Diploma
    a) Principal b) Curriculum c) Employment d) Graduation

40. Of the four choices, 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.

தமிழ்

41. தமிழ்நாட்டின் முதல் கல்வெட்டாய்வாளர் யார்?
    அ.இராமலிங்கஅடிகள் ஆ.தாயுமானவர் இ.மீனாட்சி சுந்தரம்பிள்ளை ஈ.உ.வே.சா

42. முதலாவது உலகக் கிறித்தவத் தமிழ் மாநாடு எங்கு எப்பொழுது நடைபெற்றது?
    அ.நாகர்கோவில் 1981 ஆ.திருச்சி 1981 இ.மதுரை 1984 ஈ.சென்னை 1981

43. சென்னையில் தமிழ்ப்பண்பாட்டுக் கழகம் தோற்றுவித்தவர் யார்?
    அ.இருதயநாத் ஆ.ஞானப்பிரகாசம் இ.தனிநாயகம் ஈ.சதாசிவம்

44. 'இலக்கணக்கோடாரி' என அழைக்கப்பெறுவர் யார்?
    அ.அல்லிமரைக்காயர் ஆ.சர்க்கரைப்புலவர் இ.குலாம்காதிறு ஈ.பிச்சை இபுராம்புலவர்

45. தன்னை ரோம்பிராமணர், ராஜசன்னியாசி எனக் கூறிக்கொண்டவர்-----------?
    அ.ராபர்ட் டி நொபிலி ஆ.கெண்டிரீக் பாதிரியார் இ.அந்தாம்பிரயோன்சவா ஈ.சுவாட்கு ஜயர்

46. 'மணிமேகலை' காப்பியத்தை முதன் முதலில் பதிப்பித்தவர் யார்?
    அ.விசாகபெருமாள் ஐயர் ஆ.சண்முகபிள்ளை இ.நாராயணசாமி ஐயர் ஈ.சரவணபெருமாள் ஐயர்

47. 45இடங்களில் நாடகத்தைப் பற்றிய குறிப்புகள் உள்ள நூல் எது?
    அ.தொல்காப்பியம் ஆ.வளையாபதி இ.சீவகசிந்தாமணி ஈ.சிலப்பதிகாரம்

48. வலிமையும் வேகமும் கொண்ட ஆடலால் வெளிப்படும் சுவைகள் எவை?
    அ.காமம், வீரம் ஆ.அச்சம், வீரம் இ.இன்பம் வீரம் ஈ.வெகுளி, வீரம்

49. சிவபெருமானுடைய தெய்வீக நடனத்தைப் பற்றி விளக்கிக் கூறும் நூல் எது?
    அ.கல்லாடம் ஆ.சயந்தம் இ.குணநூல் ஈ.கலிநடம்

50. திருமாலுக்கு சொன்மாலை சூடியவர் ----- ?
    அ.பேயாழ்வார் ஆ.பொய்கையாழ்வார் இ.பெரியாழ்வார் ஈ.பூதத்தாழ்வார்

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

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

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

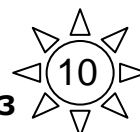**QUANTITATIVE APTITUDE :**   31.C 32.B 33.B 34.C 35.D

31. The hands of a clock coincide 11 times in every 12 hours (Since between 11 and 1, they coincide only one ie. at 12 O'clock). Therefore, the hands coincide 22 times in day

32. 1st day of the year 2023 was Monday, 1st day of the year 2024 will be 1 day beyond Monday Hence, it will be Tuesday

33. Number is $1^3, 2^3, 3^3, 4^3, 5^3, 6^3$ So, the missing number is $7^3 = 343$

34. 108Kmph= (108X5/18)m/sec =30m/sec

35. pattern is 1st X 2nd = 3rd (2x5=10), 2nd X 3rd = 4th (5x10=50), 3rd X 4^{Th} = 5th (10x50=500)

Therefore, 4th X 5th = 50x500= 25000 $\neq$ 5000=6th

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

36.(d) 3.6:In this simple subtraction series, each number decreases by 0.4.

37.(c) Mayonnaise:Parsley, basil, and dill are types of herbs. Mayonnaise is NOT an herb

38.(b) Ignorant:Elated is the opposite of despondent; enlightenedis the opposite of ignorant

39.(d) Graduation:A diploma is awarded at graduation, so graduationis essential to obtaining a diploma.Employment may be a byproduct (choice c). A principal and a curriculum (choices a and b) may play a role in the awarding of some diplomas, but they are NOT essential.

40. (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.

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. Which of the following is the main constituent of the Sun's mass?
   (A) Hydrogen (B) Nitrogen (C) Carbon dioxide (D) Helium
2. What is the normal arterial blood pH in humans?
   (A) 6.40 (B) 7.40 (C) 8.40 (D) 9.40
3. What is the name of the process of locating and fixing errors in computer program code or hardware devices?
   (A) Debugging (B) Decoding (C) Defragmenting (D) Decrypting
4. What is the fear of enclosed spaces called?
   (A) Claustrophobia (B) Agoraphobia (C) Acrophobia (D) Aerophobia
5. Which substance can be used to melt the ice on the icy roads?
   (A) Salt (B) Chlorine (C) Carbon dioxide (D) Water
6. Which of the following plants can be used to make paper?
   (A) Bamboo (B) Cotton (C) Hemp (D) All of the above
7. What is the name of the phenomenon in which a liquidchanges into a gas without boiling?
   (A) Evaporation (B) Condensation (C) Sublimation (D) Vaporization
8. Which of the following is a type of carnivorous plant that traps insects with sticky hairs on its leaves?
   (A) Venus flytrap (B) Pitcher plant (C) Sundew (D) Bladderwort
9. Which of the following is a type of edible mushroom that grows on dead or decaying wood?
   (A) Shiitake (B) Portobello (C) Button (D) Truffle
10. Which of the following is the correct abbreviation of COMPUTER?
    (A) Commonly Occupied Machines Used in Technical and Educational Research
    (B) Commonly Operated Machines Used in Technical and Environmental Research
    (C) Commonly Oriented Machines Used in Technical and Educational Research
    (D) Commonly Operated Machines Used in Technical and Educational Research

GENERAL STUDIES

11. Which of the following is not the role of NITI Aayog?
    a) Act as a think tank b) Power to impose policies on states c) Funds allocation d) above (b) and (c)
12. Which vitamin is available to the human body through sunbathing?
    a) Vitamin A b) Vitamin D c) Vitamin K d) Vitamin B
13. Which city is most affected by air pollution?
    a) China b) Japan c) Russia d) Iran
14. What is the single most effective way to prevent the transmission of disease?
    a) Antibiotics b) Hand washing c) Sanitizers d) No way
15. Industrial Revolution was Started from which country?
    a) France b) Germany c) Britain d) Italy
16. Chief Minister is appointed under which article of the Constitution of India?
    a) Article 164 b) Article 154 c) Article 153 d) Article 163
17. Which of the following is the assistance provided by SIDBI?
    a) Extending financial support to SSIDC and NSIC
    b) Developing and upgrading technology particularly for projects based on wastes
    c) Developing Small Scale Industries as ancillaries to large scale industries
    d) Procuring Government orders for Small Scale Units
18. What is full form of JPEG?
    a) Joint Photographic External Group b) Joint Photographic Experts Group
    c) Joint Photographic Extend Group d) Joint Photos Extra Group
19. Which country holds the record of winning the most number of medals in gymnastics at the Summer Olympics?
    a) United States of America b) Soviet Union c) Japan d) China
20. Headquarters of the International Swimming Federation is located in which country?
    a) Switzerland b) Netherlands c) Finland d) Ireland

CURRENT AFFAIRS

21. Which state/UT inaugurated India's first Artificial Intelligence (AI) School?
    [A] Telangana [B] Kerala [C] Karnataka [D] Punjab
22. INDIAai has signed MoU with which company mutual cooperation in the realm of artificial intelligence (AI)?
    [A] Samsung [B] Apple [C] Meta [D] Google
23. Kishore Jena, who was seen in the news, is associated with which sports?
    [A] Tennis [B] Javelin Throw [C] Badminton [D] Table Tennis
24. Who has become the first Indian to win a gold medal in the World Athletics Championships?
    (A) Neeraj Chopra (B) DP Manu (C) Kishore Jena (D) Rohit Yadav
25. 'Exercise Eagle Partner' is a joint military exercise between USA and which country?
    [A] Argentina [B] Armenia [C] Chile [D] Germany

26. Which city hosted the 'National Workshop on e-NAM 2.0 and Agri Marketing Reforms'?
    [A] Pune   [B] Amritsar   [C] Bhopal   [D] New Delhi
27. Which state announced Mukhya Mantri Shramik Kalyan Yojana (MMSKY)?
    [A] Madhya Pradesh   [B] Sikkim   [C] Meghalaya   [D] Arunachal Pradesh
28. Which city hosted the Sustainable Development Goals (SDG) Summit in September 2023?
    [A] New Delhi   [B] New York   [C] Paris   [D] Nairobi
29. Which country has launched the 'Young Professional Scheme' for visas to Indians aged between 18 and 30?
    [A] USA   [B] UK   [C] Australia   [D] Canada
30. Which Union Ministry is associated with 'Digital Personal Data Protection Bill, 2023'?
    [A] Ministry of Home Affairs   [B] Ministry of Electronics and IT
    [C] Ministry of Science and Technology   [D] Ministry of External Affairs

QUANTITATIVE APTITUDE

31. The speed of a boat in still water is 5km/hr. If the speed of the boat against the stream is 3 km/hr, what is the speed of the stream?
    A. 1.5 km/hr   B. 2 km/hr   C. 2.5 km/hr   D. 1 km/hr
32. The value of $5^{1/4}$ x $(125)^{0.25}$ is
    A. $\sqrt{5}$ B. $5\sqrt{5}$ C. 5   D. 25
33. What is the HCF of 1095 and 1168?
    A. 37   B. 73   C. 43   D. 83
34. What is the area of a triangle with base 5 meters and height 10 meters?
    A. 20 square meters   B. 35 square meters   C. 25 square meters   D. 40 square meters
35. A: B: C is in the ratio of 3: 2: 5. How much money will C get out of Rs 1260?
    A. 252   B. 125   C. 503   D. None of these

TEST OF REASONING

36. Ethnology is related to human races similarly onomatology is related to:
    a) mountains   b) insects   c) ornaments   d) names
37. Find the next alphabet in the series: AYC, EUG, IQK, MMO, _ _ _
    a) QIS   b) RST   c) QJS   d) QJT
38. Pointing to a gentleman, Arjun said, "His only brother is the father of my daughter's father". How is the gentleman related to Arjun.
    a) Father   b) Uncle   c) Grandfather   d) Brother-in-law
39. Pick the odd one out
    a) BUT   b) CUT   c) OUT   d) PUT
40. Ganesh ranked 16th from top and 37th from bottom. in a class. The total number of students in the class is
    a) 51   b) 52   c) 53   d) 54

தமிழ்

41. 'சங்கத்தமிழ்மூன்றும்தா' என்றுகேட்டபுலவர்யார்?
    அ) பாரதியார்   ஆ)திருவள்ளுவர்   இ)ஒளவையார்   ஈ)நக்கீரர்
42. பறம்புமலைத்தலைவன்யார்?
    அ)காரி   ஆ)ஆய்   இ)ஓரி   ஈ)பாரி
43. ஐங்குறுநூற்றைப்பாடியபுலவர்கள்எத்தனைபேர்?
    அ)ஐந்து   ஆ)ஏழு   இ)எட்டு   ஈ)ஆறு
44. திருநாளைப்போவார்எனப்படும்நாயனார்யார்?
    அ)நந்தனார்   ஆ)கழற்சிங்கர்   இ)திருநீலகண்டர்   ஈ)சண்டிகேசுவரர்
45. ஞானரத்தினக்குறவஞ்சிபாடியசித்தர்யார்?
    அ)பீர்முகமது   ஆ)கொங்கனர்   இ)கடுவெளிச்சித்தர்   ஈ)குதம்பைச்சித்தர்
46. இரண்டுஇதழ்கள்இணைவதால்பிறக்கும்எழுத்துக்கள்எவை?
    அ)அஆ   ஆ)க்ங   இ)ப்ம   ஈ)ஒஓ
47. இரண்டுஅடியால்வரும்வெண்பாஎது?
    அ)குறள்   ஆ)சிந்தியல்   இ)இன்னிசை   ஈ)நேரிசை
48. கீழ்க்கண்டவற்றுள்ஆண்குரங்கைக்குறிக்கும்பெயர்எது?
    அ)கடுவன்   ஆ)வெருகு   இ)ஏனம்   ஈ)தத்தை
49. 'எனதுநாடகவாழ்க்கை' என்றநூலின்ஆசிரியர்யார்?
    அ)மு.கருணாநிதி   ஆ)டி.கே.சண்முகம்   இ)பம்மல்சம்மந்தம்   ஈ)உ.வே.சா
50. கீழ்க்கண்டவற்றுள்கலைஞர்மு.கருணாநிதிஎழுதியநூல்எது?
    அ)வேலைக்காரி   ஆ)ஓர்இரவு   இ)நீதிதேவன்மயக்கம்   ஈ)மந்திரிகுமாரி

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

21. B [Kerala]
   ✓ President Ram Nath Kovind inaugurated India's first Artificial Intelligence (AI) school called as Santhigiri Vidyabhavan in Kerala's capital city, Thiruvananthapuram.
   ✓ The AI school is a result of a collaboration between iLearning Engines (ILE) USA and Vedhik eSchool.

22. C [Meta]
   ✓ Recently, INDIAai and Meta India entered into a memorandum of understanding (MoU) to create a structure for collaboration and mutual cooperation in the realm of artificial intelligence (AI) and emerging technologies.
   ✓ The objective of this partnership is to make Meta's open-source AI models accessible and usable through joint efforts.

23. B [Javelin Throw]
   ✓ Odisha's javelin star Kishore Jena became the first from the state to represent India at the finals of the World Athletics Championship.
   ✓ At the World Athletics Championships in Budapest, he finished fifth with a personal best of 84.77 metres.

24. **(a) Neeraj Chopra**
   ✓ India's star javelin thrower and golden boy Neeraj Chopra has won the gold medal in the World Athletics Championship 2023 by performing brilliantly.
   ✓ With this, Neeraj Chopra has become the first Indian athlete to win a gold medal in the World Athletics Championships.
   ✓ The World Athletics Championship was organized in Budapest, Hungary.
   ✓ Neeraj has also become the first Indian to win more than one medal in the Athletics Championships.
   ✓ He won this medal with a throw of 88.17 meters.

25. B [Armenia]
   ✓ 'Exercise Eagle Partner' is a joint military exercise between USA and Armenia.
   ✓ Around 85 U.S. soldiers will train with 175 Armenian troops during this exercise.
   ✓ These exercises are happening at a time when Armenia is expressing frustration over Russia's perceived failure to act as a security guarantor, particularly regarding its tensions with historic rival Azerbaijan.

26. D [New Delhi]
   ✓ Ministry of Agriculture and Farmers Welfare organised 'National Workshop on e-NAM 2.0 and Agri Marketing Reforms'.
   ✓ Till 31st August 2023, 1361 Agricultural Produce Market Committees (APMC) were integrated on e-NAM, covering 23 States and 4 UTs , where in 209 commodities are being traded.

27. D [Arunachal Pradesh]
   ✓ Arunachal Pradesh Chief Minister Pema Khandu has announced the launch of the Mukhya Mantri Shramik Kalyan Yojana (MMSKY) as part of the National Labour Day celebrations.
   ✓ Under the scheme, benefits such as maternity benefits, natural death compensation, accidental death compensation, funeral assistance, medical assistance, and more have been significantly increased.

28. B [New York]
   ✓ Leaders from around the world gathered at the UN-hosted High-level Sustainable Development Goals (SDG) Summit in New York and endorsed a resolute political declaration.
   ✓ This declaration outlines their shared commitment to creating a sustainable and inclusive world by 2030.
   ✓ Leaders reiterated the importance of the Addis Ababa Action Agenda and called for swift action to implement the UN Secretary-General's proposal for an SDG stimulus.

29. B [UK]
   ✓ The British government has opened its second ballot under the UK-India Young Professional Scheme. This is a scheme for Indians aged between 18 and 30 years with graduate-level qualifications for visas to the United Kingdom.
   ✓ It offers eligible young Indians the opportunity to live, work or study in UK for up to two years. This joint scheme between UK and India was formally launched this year in February. This scheme will enable candidates to enter the UK at any time while their visa is valid and leave or return anytime during their stay.

30. B [Ministry of Electronics and IT]
   ✓ After five years of negotiations, the Digital Personal Data Protection Bill, 2023, was introduced in the Indian Parliament by the Ministry of Electronics and IT.
   ✓ It recognizes both the rights of the individuals to protect their personal data and the need to process such personal data for lawful purposes.

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

31. B Let the speed of stream = X km/hr, Speed of boat = 5 km/hr. Speed upstream = 3km/hr
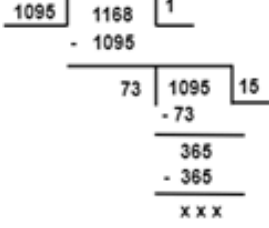   **Apply formula:** Speed upstream = speed of boat - speed of stream
   ∴ 3 = 5 − X, X = 5 - 3 = 2 km/hr

32. C 5^1/4 x (125)0.25

$$5^{1/4} \times (5^3)^{1/4} = 5^{\frac{1}{4}+\frac{3}{4}} = 5$$

33. B By Division Method

```
1095 | 1168 | 1
       - 1095
       --------
        73 | 1095 | 15
             - 73
             --------
              365
              - 365
              --------
               x x x
```

   Therefore the HCF is 73

34. C Area of a triangle = ½ * base * height, So, the area = ½* 5 * 10 = 25 square meters

35. D C's share = [C's ratio/ sum of ratios] * total amount, C's share = (5/10) * 1260, C's share = 630

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

36.d. Ethnology is the study of human races. Similarly, Nomatology is the study of names.

37.a. QIS, the middle letter is just the alphabet corresponding to the number of the original alphabet in reverse order.

38.b. Father of my (Deepak's) daughter's father means Deepak's father.
   Deepak's father is the only brother of gentleman. So the gentleman is Deepak's uncle.

39.c. In all other three words, there is only one vowel but in OUT there are two vowels.

40.b. 15 + 1 + 36 = 52

தமிழ் விடைகள்: 41.இ)ஒளவையார் 42.ஈ)பாரி 43.அ)ஐந்து 44.அ)நந்தனார் 45.அ)பீர்முகமது
46.இ)ப்ம் 47.அ)குறள் 48.அ)கடுவன் 49.ஆ)டி.கே.சண்முகம் 50.ஈ)மந்திரிகுமாரி
@ @ @ @ @ @ @ @ @ @