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GENERAL APTITUDE TEST OFFICIAL PAPER - 2025

GENERAL APTITUDE TEST – CUET 2025

1. A sum of money becomes thrice of itself in 20 years. Find the simple interest rate per annum?
   (a) 6.66%   (b) 12%
   (c) 10%   (d) 8.33 %

2. There is a match between two teams. Each team has a total of 15 players. After the match, all the players of one team shake hands with all the players of the other team. What is the number of possible hand shakes?
   (a) 105   (b) 225
   (c) 450   (d) 210

3. Match List-I with List-II

List-I	List-II
Names of Satellites	**Application**
(A) EOS-04	(I) Communication
(B) GSAT-29	(II) Experimental
(C) GAGAN	(III) Navigation
(D) INS-1A	(IV) Earth Observation

   Choose the correct answer from the options given below:
   (a) (A) - (IV), (B) - (I), (C) - (III), (D) - (II)
   (b) (A) - (IV), (B) - (I), (C) - (II), (D) - (III)
   (c) (A) - (I), (B) - (IV), (C) - (III), (D) - (II)
   (d) (A) - (I), (B) - (IV), (C) - (II), (D) - (III)

4. India shares the shortest land border with which of the following neighboring countries?
   (a) Afghanistan   (b) Nepal
   (c) Bhutan   (d) Myanmar

5. Two numbers a and b are in the ratio $3:2$ and their sum is 25. The value of a is?
   (a) 18   (b) 15
   (c) 12   (d) 16

6. Which one among the following is a crop of the zaid season?
   (a) Cotton   (b) Watermelon
   (c) Mustard   (d) Groundnut

7. Which among the following cities is situated on the banks of the Godavari river?
   (a) Prayagraj   (b) Nagpur
   (c) Baghpat   (d) Nashik

8. Who among the following Indian Scientists made contributions to the field of quantum mechanics?
   (a) C. V. Raman
   (b) Har Gobind Khorana
   (c) Jagdish Chandra Bose
   (d) Satyendra Nath Bose

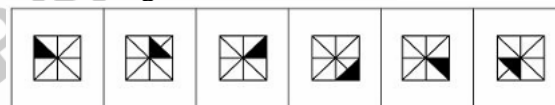9. Match the given areas of various solid objects with their respective formulae:

List I	List II
Area of solid object	**Formula**
(A) Lateral surface area of a cylinder	(I) $\pi r \sqrt{r^2 + h^2}$
(B) Total surface area of a hemisphere	(II) $4\pi r^2$
(C) Lateral surface area of a cone	(III) $2\pi r h$
(D) Surface area of a sphere	(IV) $3\pi r^2$

   (Where, r = radius of the solid shape (or base) and h = height of the solid shape.)
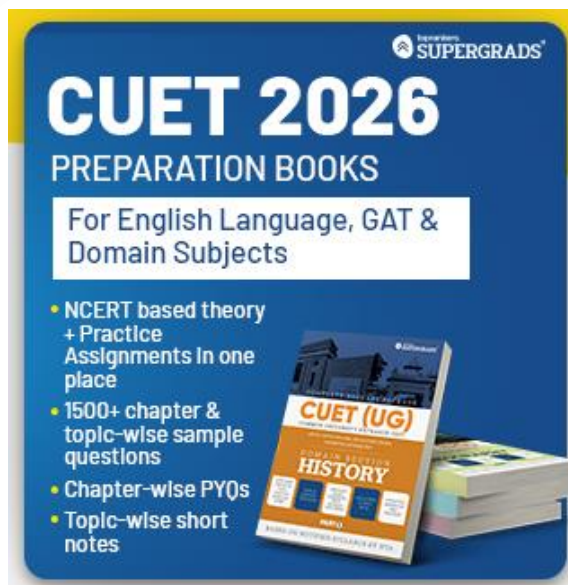   Choose the correct answer from the options given below:
   (a) (A) - (III), (B) - (IV), (C) - (I), (D) - (II)
   (b) (A) - (I), (B) - (II), (C) - (III), (D) - (IV)
   (c) (A) - (I), (B) - (IV), (C) - (III), (D) - (II)
   (d) (A) - (III), (B) - (II), (C) - (I), (D) - (IV)

10. Select a figure from the options which will continue the same series as established by the problem figures.
   **Problem Figures**

    (a)   (b)

    (c)   (d)

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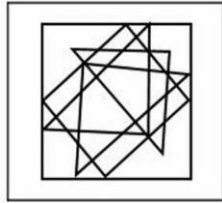
11. A car covers a certain distance in 7 hours with a uniform speed. The same distance could have been covered in 6 hours if the speed of the car was increased by 10Km/h. What is the distance covered?
(a) 360 Km   (b) 470 Km
(c) 420 Km   (d) 300 Km

12. Select the figure from the options which is embedded in the figure given below (Rotation is not allowed).

(a)   (b)

(c)   (d)
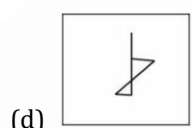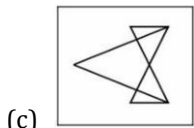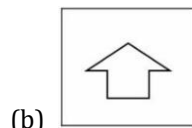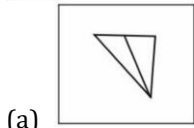
13. If in a certain code language, 'BAKE' is written as ' 19 ', then how will 'MAKE' be written in that code?
(a) 29   (b) 28
(c) 30   (d) 31

14. Who among the following can hear Infrasound?
(a) Dolphin   (b) Human beings
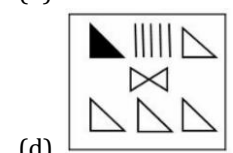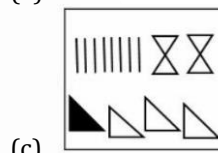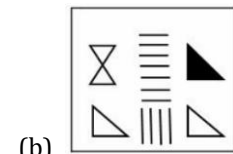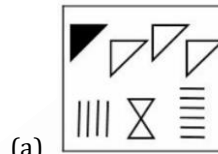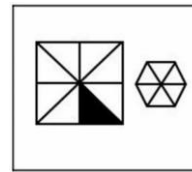(c) Rhinoceros   (d) Bat

15. Which of the following numbers, when placed at the sign of interrogation (?) will complete the given pattern?
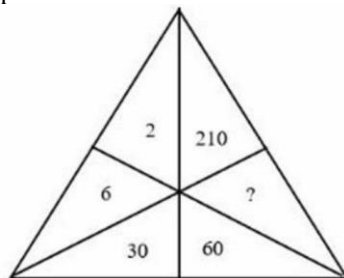
(a) 130   (b) 150
(c) 180   (d) 110

16. Find the figure given in the options that can form the problem figure.
Problem figure:

(a)   (b)

(c)   (d)

17. Pointing towards a woman, Ajeet said, "She is the mother of my children's father." How is the man related to the woman?
(a) Father   (b) Brother
(c) Son   (d) Nephew

18. Find the angle between the two hands of the clock at 9: 16.
(a) 182°   (b) 180°
(c) 183°   (d) 184°

19. A, B and C can do some work in 40 days. A and C together can do twice as much work as B alone. Find the time taken by B to do the whole work.
(a) 120 days   (b) 100 days
(c) 160 days   (d) 80 days

20. Study the following five numbers and answer the question given below:
135, 269, 667, 581, 783
What will be the last digit (unit place) of the second-largest number when they are arranged in ascending order after reversing the positions of the digits within each number?
(a) 7   (b) 6
(c) 5   (d) 2

21. Arrange the following in chronological order, beginning with the earliest.
(A) Early Buddhist texts including the Tripitaka
(B) Charaka and Sushruta
(C) Ashtadhyayi of Panini
(D) Natyashastra of Bharata
Choose the correct answer from the options given below:
(a) (C), (A), (B), (D)   (b) (C), (B), (A), (D)
(c) (B), (A), (D), (C)   (d) (B), (D), (A), (C)

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22. Which of the figures given in options completes the figure matrix given below?

(a)

(b)

(c)

(d)
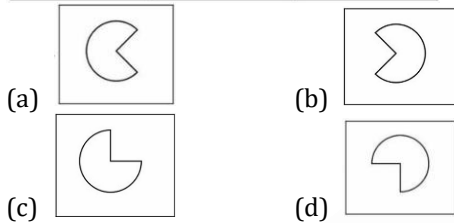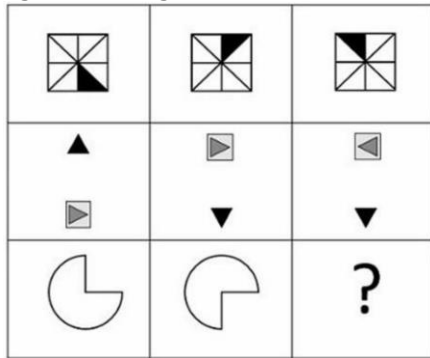
23. The sum of n terms of the series $1 + 1.5 + 2 + 2.5 + 3 + \cdots$ is?

(a) $\frac{n(n+3)}{4}$

(b) $\frac{n(n+1)}{2}$

(c) $\frac{(n+1)(n+2)}{4}$

(d) $\frac{n(n+3)}{2}$

24. An observer 2 m tall is $24\sqrt{3}$ m away from a building. The angle of elevation of the top of the building as seen by him is 30°. What is the height of the building?

(a) 24 m

(b) 20 m

(c) 30 m

(d) 26 m

25. What will replace '?' in the following alphanumeric series?

C2X, G3T, K5P, O7L, ?, W13D

(a) T9G

(b) S11H

(c) T11G

(d) S9H

26. Arrange the following events of India's independence struggle in chronological order, beginning with the earliest to the most recent one.

(A) Khilafat Movement

(B) Home Rule Movement

(C) Chauri Chaura incident

(D) Swadeshi Movement

Choose the correct answer from the options given below:

(a) (C), (D), (A), (B)

(b) (C), (A), (D), (B)

(c) (D), (B), (A), (C)

(d) (D), (A), (B), (C)

27. India's first Archaeological Experimental Museum building is being built in which of the following place?

(a) Pune, Maharashtra

(b) Vadnagar, Gujarat

(c) Hyderabad, Telangana

(d) Kurukshetra, Haryana

28. Which among the following is NOT a type of "muscle tissue"?

(a) Cardiac

(b) Striated

(c) Unstriated

(d) Areolar

29. Which among the following non-metal is "monoatomic"?

(a) Oxygen

(b) Chlorine

(c) Nitrogen

(d) Helium

30. If the points $A(11, y)$, $B(13,5)$, $C(14,7)$ and $D(12,6)$ are the vertices of a parallelogram, taken in order, find the value of y.

(a) 8

(b) 5

(c) 4

(d) -8

31. Which of the following books are correctly matched with their authors?

(A) Humayun Nama - Gulbadan Begum

(B) Akbar Nama - Abul Fazl

(C) Badshah Nama - Abdul Hamid Lahori

(D) Alamgir Nama - Muhammad Waris

Choose the correct answer from the options given below:

(a) (A), (B) and (C) only

(b) (A), (B) and (D) only

(c) (A), (C) and (D) only

(d) (B), (C) and (D) only

32. Two candidates, X and Y, appeared in an interview for two vacancies for the same post. The probabilities of their selection are 1/4 and 1/7, respectively. What is the probability that one of them will be selected?

(a) 1/28

(b) 27/28

(c) 5/14

(d) 9/28

33. What was the day of the week on 1st January, 2006?
    (a) Monday   (b) Sunday
    (c) Saturday   (d) Friday

34. The mode and median of a set of 7 observations are 22.72 and 49.28, respectively. If each of the largest 3 observations of the set is increased by 4, then the median of the new set?
    (a) remains the same as that of the original set
    (b) is decreased by 4
    (c) is increased by 4
    (d) is 2 times as that of the original set

35. Which of the following authors is wrongly matched with their books?
    (a) Maxim Gorky - Mother
    (b) Gabriel Garcia Marquez - Chronicle of a Death Foretold
    (c) Bibhutibhushan Bandyopadhyay- Pather Panchali
    (d) Edmund Wilson - Paradise Lost

36. Consider the following statements
    (A) The difference between the place values of 9 and 5 in the number 639457 is 4.
    (B) The number π is an irrational number.
    (C) The sum of all the prime numbers from 1 to 20 is 67.
    (D) The difference between the face values of 5 and 3 in number 475839 is 2.
    Choose the correct answer from the options given below:
    (a) (C) and (D) only
    (b) (A), (C) and (D) only
    (c) (A), (B) and (C) only.
    (d) (B) and (D) only

37. "Jhumming" in the north-eastern states of India is an example of _____ ?
    (a) Horticulture
    (b) Slash and burn agriculture
    (c) Commercial farming
    (d) Intensive subsistence farming

38. Two water pipelines are represented by the equations $kx + 3y + 1 = 0$ and $2x + y + 3 = 0$. For what value of k, the pipelines cross each other?
    (a) $k = 6$ (b) $k \neq 0$
    (c) $k \neq 6$ (d) $k \neq -5$

39. Which of the following subjects is NOT included in the State List?
    (A) Post and Telegraph
    (B) Banking
    (C) Education
    (D) Trade and Commerce
    Choose the correct answer from the options given below:
    (a) (A), (B) and (C) only (b) (A), (B) and (D) only

(c) (A), (C) and (D) only (d) (B), (C) and (D) only

40. A wire is looped in the form of a circle of diameter 70 cm. It is bent again into a square form. What will be the approximate length of the diagonal of the largest possible square? (Assume $\pi = 22/7$)
    (a) $45\sqrt{2}$ cm   (b) 60 cm
    (c) 50 cm   (d) $55\sqrt{2}$ cm

41. If the cost-price of 18 articles is equal to the selling price of 15 articles, then find the gain percentage?
    (a) 20%   (b) 25%
    (c) 15 %   (d) 30%

42. The Grand Canyon, carved out by the Colorado River and the most spectacular gorge in the world, is located in which state of the United States of America?
    (a) Colorado   (b) Arizona
    (c) Arkansas   (d) Nebraska

43. When was NASA's Space X Crew-10 launched from the Kennedy Space Center in Florida to bring back stranded astronauts, Nick Hague, Sunita Williams and Butch Willmore?
    (a) 21 February 2025   (b) 28 February 2025
    (c) 7 March 2025   (d) 14 March 2025

44. Find the odd one from the given options.
    (a) $P - 16$ (b) $K - 11$
    (c) $M - 14$ (d) $T - 20$

45. The "Digital India Programme", to ensure digital services, digital access, digital inclusion, digital empowerment and bridge the digital divide, was launched by the Government of India in which year?
    (a) 2014   (b) 2015
    (c) 2016   (d) 2017

46. Match List-I with List-II

List-I (Name of Writ)	List-II (Reason for Issue)
(A) Mandamus	(I) Issued when the court finds that a person is holding office but is not entitled to hold that office
(B) Prohibition	(II) Issued when the court finds that a particular office holder is not doing legal duty
(C) Quo Warranto	(III) Issued by a higher court when a lower court has considered a case beyond its jurisdiction
(D) Certiorari	(IV) Court orders a lower court to transfer a matter pending before it for review by the higher court

Choose the correct answer from the options given below:
(a) (A) - (III), (B) - (II), (C) - (I), (D) - (IV)
(b) (A) - (III), (B) - (II), (C) - (IV), (D) - (I)
(c) (A) - (II), (B) - (III), (C) - (IV), (D) - (I)
(d) (A) - (II), (B) - (III), (C) - (I), (D) - (IV)

47. Maheep started to move in the direction of the East. After moving 17 m , he turned to his left twice and moved 12 m each time. How far is he from starting point?
(a) 12 m
(b) 5 m
(c) 10 m
(d) 13 m

48. Which of the following dance forms of India is wrongly matched with the state of its origination?
(a) Sattriya - Assam
(b) Bharatanatyam - Tamil Nadu
(c) Mohiniyattam - Karnataka
(d) Kuchipudi - Andhra Pradesh

49. P, Q, R, S, T, U and V are sitting around a circular table facing the center but not necessarily in the same order. S is not a neighbor of Q and V. P is a neighbor of Q and R. U, who is second to the right of S, is the neighbor of T and V . Which of the following must be true?
(A) V is not seated next to Q.
(B) T is sitting third to the left of Q.
(C) R is sitting third to the right of V.
(D) R and S are not neighbors.
Choose the correct answer from the options given below:
(a) (B), (C) and (D) only
(b) (A), (B), (C) and (D)
(c) (B) and (C) only
(d) (B) and (D) only

50. Choose the letters whose water images are identical to the letter itself.
(A) k   (B) z
(C) x (D) 0
Choose the correct answer from the options given below:
(a) (A), (C) and (D) only
(b) (B), (C) and (D) only
(c) (D) only
(d) (C) and (D) only

ANSWER KEY AND EXPLANATIONS

1. **(c)** A sum becomes thrice of itself in 20 years using Simple Interest (SI).
   That means:
   Final Amount A=3PA = 3PA=3P, where PPP is the principal.
   So, Simple Interest (SI) = A - P = 3P - P = 2P
   $2P = \frac{P \times R \times T}{100}$
   $2P = \frac{P \times R \times 20}{100}$
   $2 = \frac{R \times 20}{100}$
   $R = 10\%$

2. **(b)** Each of the 15 players from **Team A** shakes hands with each of the 15 players from **Team B**.
   So, the number of handshakes is:
   $15 \times 15 = 225$

3. **(a)** (A) EOS-04 → (IV) Earth Observation
   EOS = Earth Observation Satellite
   Used for agriculture, forestry, and flood mapping.
   (B) GSAT-29 → (I) Communication
   GSAT series = Geo-Stationary Communication Satellites
   Used to improve internet and communication services in remote areas.
   (C) GAGAN → (III) Navigation
   GAGAN = GPS Aided GEO Augmented Navigation
   Joint project by ISRO and AAI for air navigation.
   (D) INS-1A → (II) Experimental
   INS = ISRO Nano Satellite
   Launched for experimental and research purposes.

4. **(a)** India shares the shortest land border approximately **106 km** with Afghanistan.
   The India-Afghanistan border lies in the Wakhan Corridor, and is under Indian claim in the Pakistan-occupied Kashmir (PoK) region.

Country	Border Length with India
Afghanistan	~106 km (shortest)
Nepal	~1,751 km
Bhutan	~699 km
Myanmar	~1,643 km

5. **(b)** Cotton – Kharif crop
   Watermelon – Zaid crop
   Mustard – Rabi crop
   Groundnut – Mostly Kharif crop

6. **(b)** We are given:
   The ratio of two numbers $a:b = 3:2$
   Their sum: $a + b = 25$
   $a = 3x, b = 2x$
   $a + b = 3x + 2x = 5x = 25$
   $\Rightarrow x = \frac{25}{5} = 5$
   $a = 3x = 3 \times 5 = 15$
   $b = 2x = 2 \times 5 = 10$

7. **(d)** The Godavari River is the second longest river in India (after the Ganga) and flows eastward across the Deccan Plateau, eventually emptying into the Bay of Bengal.
   Prayagraj – Located at the confluence of Ganga, Yamuna, and Saraswati (not Godavari)
   Nagpur – Not on the bank of any major river; not Godavari
   Baghpat – Located in Uttar Pradesh, near the Yamuna River
   Nashik – Situated on the banks of the Godavari River

8. **(d)** C. V. Raman – Discovered the Raman Effect (related to light scattering), won Nobel Prize in Physics (1930)
   Har Gobind Khorana – Worked in genetics and molecular biology, Nobel Prize in Medicine (1968)
   Jagdish Chandra Bose – Pioneer in radio waves and plant physiology
   Satyendra Nath Bose – Major contributor to quantum mechanics, especially Bose-Einstein statistics

9. **(a)** Is the correct answer.
   (A) Lateral surface area of a cylinder — (I) $\pi r \sqrt{r^2 + h^2}$
   (B) Total surface area of a hemisphere — (II) $4\pi r^2$
   (C) Lateral surface area of a cone — (III) $2\pi rh$
   (D) Surface area of a sphere — (IV) $3\pi r^2$

10. **(b)** Is the correct answer.

11. **(c)** Let the original speed of the car be x km/h.
    Then, the distance is:
    $Distance = Speed \times Time = x \times 7 = 7x$
    If the speed is increased by 10 km/h, the time becomes 6 hours. So:
    $Distance = (x + 10) \times 6 = 6(x + 10)$
    Since both expressions represent the same distance:
    $7x = 6(x + 10)$
    Now solve:
    $7x = 6x + 60$
    $7x – 6x = 60$
    $x = 60$
    So, the original speed = 60 km/h
    Distance = 7×60 = 420 km

12. **(d)** Is the correct answer.

13. **(c)** BAKE = B (2) + A (1) + K (11) + E (5) = 2 + 1 + 11 + 5 = 19
    Make = M (13) + A (1) + K (11) + E (5) = 13 + 1 + 11 + 5 = 30

14. **(c)** Dolphin – Hears ultrasound (high-frequency), not infrasound - Incorrect
    Human beings – Can hear 20 Hz to 20,000 Hz, so not infrasound - Incorrect
    Rhinoceros –Can hear infrasound and use it to communicate over long distances - Correct
    Bat – Uses ultrasound for echolocation, not infrasound - Incorrect

15. **(a)** $1^3 + 1 = 2$
    $2^3 - 2 = 6$
    $3^3 + 3 = 30$
    $4^3 - 4 = 60$
    $5^3 + 5 = 130$
    $6^3 - 6 = 210$

16. **(c)** Is the correct answer.

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& many more...

17. **(c)** My children's father" = Ajeet himself (since he is the father of his children).
So the sentence becomes:
"She is the mother of me."
So, Ajeet is the son of the woman.

18. **(a)** Each minute = 6°, so:
16 × 6 = 96°
The minute hand is at 96° from the 12 o'clock position.
Each hour = 30°, and each minute shifts the hour hand by 0.5°.
At 9:00, the hour hand is at:
9×30=270°
In 16 minutes, the hour hand moves:
0.5°×16 = 8°
So total position of hour hand = 270° + 8° = 278°
Angle Between the Two Hands
278° – 96° = 182°

19. **(a)** A, B and C can do the work in 40 days
A+B+C = $\frac{1}{40}$ ----------(1)
A and C together can do twice as much work as B alone
$A + C = 2B$ ---------(2)
By eq. (1) and (2)
B+2B = $\frac{1}{40}$
3B = $\frac{1}{40}$
B = $\frac{1}{120}$
B can do the work alone in 120 days.

20. **(b)** Reverse the digits of each number
135 → 531
269 → 962
667 → 766
581 → 185
783 → 387
Arrange the reversed numbers in ascending order
185, 387, 531, 766, 962
Second-largest: 76**6**
6 will be the last digit.

21. **(a)** (C) Ashtadhyayi of Panini
Dated around 500 BCE, i.e., contemporary with or just before Buddha.
Slightly before or contemporary to early Buddhist texts.
(A) Early Buddhist texts including the Tripitaka
Belong to around the 5th–3rd century BCE (oral tradition began soon after Buddha's death in the 5th century BCE).
(B) Charaka and Sushruta
Associated with ancient Indian medicine (Ayurveda).
Sushruta Samhita likely between 1000 BCE – 600 BCE.
Charaka Samhita likely between 2nd century BCE – 2nd century CE.
Taken together, their roots are older than Buddhist texts, especially Sushruta.
(D) Natyashastra of Bharata
Likely composed between 200 BCE – 200 CE, making it the latest of all four.

22. **(d)** In each row, the second figure is the water image (vertical reflection) of the first, and the third figure is the mirror image (horizontal reflection) of the second.
Hence, option D is the correct answer.

23. **(a)** We are given the series:
1 + 1.5 + 2 + 2.5 + 3 + ⋯ (n terms)
This is an arithmetic progression where the first term a = 1, and the common difference d = 0.5

So the series is:
1, 1.5, 2, 2.5, 3, 3.5, 4, ...
This is a sequence increasing by 0.5 each time, i.e.,
$Tn = a + (n − 1)d = 1 + (n − 1)(0.5)$
We need to find the sum of the first n terms of this A.P.
Formula for sum of n terms in A.P.:
$Sn = \frac{n}{2}[2a + (n − 1)d]$
$Substituting\ a = 1\ and\ d = 0.5$
$Sn = \frac{n}{2}[2(1) + (n − 1)0.5]$
$= \frac{n}{2}[2 + 0.5n − 0.5]$
$= \frac{n}{2}\left[\frac{3}{2} + \frac{1}{2}n\right]$
$= \frac{n}{2}\left[\frac{n+3}{2}\right]$
$= \frac{n(n+3)}{4}$

24. **(d)** Let the height of the building (from the ground) be H meters.
Let the height of the portion of the building above the observer's eye level be h.
From the geometry of the problem (right-angled triangle formed):
$tan(\mathbf{30°}) = \frac{h}{24\sqrt{3}}$
We know:
$\tan(\mathbf{30°}) = \frac{1}{\sqrt{3}}$
$\frac{1}{\sqrt{3}} = \frac{h}{24\sqrt{3}}$
$h = 24$
Now, total height of the building:
$H = h + observer's\ height = 24 + 2 = 26$ m

25. **(b)** First letters: C → G → K → O → ? → W
C(3) + 4 = G (7)
G(7) + 4 = K (11)
K(11) + 4 = O (15)
O(15) + 4 = **S (19)**
S(19) + 4 = W (23)
Number in the middle: 2 → 3 → 5 → 7 → ? → 13
These are prime numbers:
2, 3, 5, 7, **11**, 13
Last Letter:
X → T → P → L → ? → D
Let's convert to positions in alphabet:
X = 24
T = 20 (−4)
P = 16 (−4)
L = 12 (−4)
? = H (8) → L − 4
D = 4 **(H − 4)**
S11H is the right answer.

26. **(c)** Events and Dates:
(D) Swadeshi Movement – 1905
(B) Home Rule Movement – 1916
(A) Khilafat Movement – 1919–1924
(C) Chauri Chaura Incident – 1922
(D), (B), (A), (C) is the right answer.

27. **(b)** Vadnagar in Gujarat is the site of India's first **Archaeological Experiential Museum**, blending immersive technology with ancient heritage. It aims to offer interactive experiences alongside archaeological findings, making history more engaging for visitors.

28. **(d)** Cardiac, striated (skeletal), and unstriated (smooth) tissues are types of muscle tissue:
Striated = Skeletal muscle (voluntary)

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Unstriated = Smooth muscle (involuntary)
Cardiac = Heart muscle (involuntary and striated)
Areolar tissue is not a muscle tissue — it is a connective tissue that helps bind skin to muscles and fills spaces between organs.
Thus, Areolar is not a type of muscle tissue.

29. **(d)** Most non-metals like oxygen (O_2), nitrogen (N_2), and chlorine (Cl_2) exist as diatomic molecules — they naturally occur as pairs of atoms.
Helium (He) is a noble gas, and it exists in nature as single atoms, i.e., monoatomic.
Hence, Helium is the correct answer.

30. **(c)** In a parallelogram, the diagonals bisect each other.
That means the midpoint of AC = midpoint of BD.
Find the midpoint of diagonal AC
A=(11, y), C=(14,7)
Midpoint of AC:
$\left(\frac{11+14}{2}, \frac{y+7}{2}\right) = \left(\frac{25}{2}, \frac{y+7}{2}\right)$
Find the midpoint of diagonal BD
$B = (13, 5), D = (12, 6)$
$\left(\frac{13+12}{2}, \frac{5+6}{2}\right) = \left(\frac{25}{2}, \frac{11}{2}\right)$
Now equate the y-coordinates:
$\frac{y+7}{2} = \frac{11}{2}$
$y = 4$

31. **(a)** Alamgir Nama is Not written by Muhammad Waris, It was written by Mirza Muhammad Kazim.

32. **(d)** We are given:
Probability that X is selected = $\frac{1}{4}$
Probability that Y is selected = $\frac{1}{7}$
We are to find the probability that exactly one of them is selected (i.e., either X is selected and Y is not, or Y is selected and X is not).
Probability that X is not selected = $1 - \frac{1}{4} = \frac{3}{4}$
Probability that Y is not selected = $1 - \frac{1}{7} = \frac{6}{7}$
P(Only one selected)
= P(X selected and Y not selected) + P(Y selected and X not selected)
$= \frac{1}{4} \times \frac{6}{7} + \frac{1}{7} \times \frac{3}{4} = \frac{6}{28} + \frac{3}{28} = \frac{9}{28}$

33. **(b)** Is the correct answer.

Century	Odd days	Months	Odd Days	Month Odd Day in leap year
100	5	Jan	1	0
200	3	Feb	4	3
300	1	Mar	4	4
400	0	Apr	0	0
500	5	May	2	2
600	3	June	5	5
700	1	July	0	0
800	0	Aug	3	3
900	5	Sep	6	6
1000	3	Oct	1	1
1100	1	Nov	4	4
1200	0	Dec	6	6

By using codes
Date + Month code + Century code + Year + leap year + 5 (always add five)
1 + 1 + 0 + 6 + 1 + 5 = 14 = 0 odd days
So, Sunday was the day of the week on 1st January, 2006.

34. **(a)** Mode = 22.72
Median = 49.28

There are 7 observations (odd number, so the median is the 4th value when arranged in order).
The largest 3 values (5th, 6th, and 7th) are each increased by 4.
Median of a data set with odd number of terms (7) is the 4th value, which is not affected if changes are made only to values after it (i.e., to the 5th, 6th, and 7th values).
Therefore, the median remains unchanged.

35. **(d)** Maxim Gorky is indeed the author of Mother.
Gabriel García Márquez wrote Chronicle of a Death Foretold.
Bibhutibhushan Bandyopadhyay is the original author of Pather Panchali.
But Paradise Lost was written by John Milton, not Edmund Wilson.

36. **(d)** Place value of 9 = 9000 (9 is in the thousands place)
Place value of 5 = 50 (5 is in the tens place)
Difference = 9000 – 50 = 8950
So, (A) is incorrect (not 4)
(B) The number π (pi) is an irrational number – True
(C) Prime numbers from 1 to 20 are:
2, 3, 5, 7, 11, 13, 17, 19
Sum = 2 + 3 + 5 + 7 + 11 + 13 + 17 + 19 = 77
So, (C) is incorrect
Given Number for (D): 475839
Face value of 5 = 5
Face value of 3 = 3
Difference = 5 – 3 = 2
So, (D) is correct
Correct Statements are (B) and (D).

37. **(b)** Jhumming is a traditional method of shifting cultivation practiced in the northeastern states like Assam, Meghalaya, Mizoram, and Nagaland.
In this method, a patch of forest is cleared by slashing the vegetation and burning the debris.
The land is then cultivated for a few years and abandoned once the soil fertility declines.
Correct Answer: b. Slash and burn agriculture

38. **(c)** We are asked to find the value of k for which the pipelines cross each other, i.e., the lines intersect at a unique point.
Check condition for unique intersection.
Two lines will intersect (i.e., not be parallel or coincident) if their slopes are different.
Convert both equations to slope-intercept form (i.e., $y = mx + c$):
$kx + 3y + 1 = 0$
$3y = -kx - 1$
$y = -\frac{kx}{3} - \frac{1}{3}$
Slope $m_1 = -\frac{k}{3}$
Slope $m_2 = -2$
For the lines to intersect, slopes must be different:
$m_1 \neq m_2$
$-\frac{k}{3} \neq -2$
$k \neq 6$

39. **(a)** (A) Post and Telegraph –
Union List
This is a subject handled solely by the Central Government.
(B) Banking –
Union List

Banking is also regulated centrally by RBI and is part of the Union List.
(C) Education –
Concurrent List
Both State and Central governments can make laws on education.
(D) Trade and Commerce –
This is a divided subject:
Intra-state trade and commerce can be in the State List.
Inter-state or international trade falls under the Union List.
Correct option: a. (A), (B), and (C)

40. **(d)** Circumference of circle = Length of wire

$2\pi r = 2 \times \frac{22}{7} \times 35 = 220 \, cm$

Perimeter of square = Circumference of circle
$4 \times a = 220$
$a = 55$
Diagonal of the square = $side \times \sqrt{2}$
Diagonal of the square = $55 \times \sqrt{2} = 55\sqrt{2}$

41. **(a)** Cost price (CP) of 18 articles = Selling price (SP) of 15 articles
Let the cost price of 1 article = ₹1
CP of 18 articles = ₹18
So, SP of 15 articles = ₹18
⇒ SP of 1 article = ₹18 ÷ 15 = ₹1.20
$Gain = SP - CP = 1.20 - 1 = ₹0.20$
$Gain\% = \left(\frac{0.20}{1}\right) \times 100 = 20\%$

42. **(b)** The Grand Canyon is located in northern Arizona, USA. It is one of the most famous natural landmarks in the world and a designated UNESCO World Heritage Site. Though it's carved by the Colorado River, the state it lies in is Arizona, So, the correct answer is (b).

43. **(d)** NASA's SpaceX Crew-10 mission was launched on 14 March 2025 from the Kennedy Space Center in Florida to bring back astronauts Nick Hague, Sunita Williams, and Butch Willmore, who were stranded due to a delay in Starliner's return mission.

44. **(c)** All options except option 3 (M-14) have the number equal to the position of the letter in the alphabet.
M is the 13th letter, but it is paired with 14, which is +1 off.

45. **(b)** The "Digital India Programme" was launched by the Government of India to transform the country into a digitally empowered society and knowledge economy. It was officially launched on 1st July 2015 by Prime Minister Narendra Modi.

46. **(d)** Is the correct answer.

List-I (Writ)		List-II (Correct Match)
(A) Mandamus	(II)	Issued when the court finds that a particular office holder is not doing legal duty
(B) Prohibition	(III)	Issued by a higher court when a lower court has considered a case beyond its jurisdiction
(C) Quo Warranto	(I)	Issued when a person is holding office but is not entitled to hold that office
(D) Certiorari	(IV)	Court orders a lower court to transfer a matter pending before it for review by the higher court (close approximation)

47. **(d)** tarts facing East, moves 17 m → Now he is 17 m East of the starting point.

Turns left → Now facing North, moves 12 m.
Turns left again → Now facing West, moves 12 m.
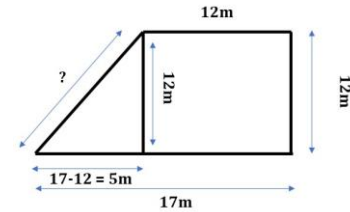
Use the Pythagorean Theorem:
Distance = $\sqrt{(5)^2 + (12)^2} = \sqrt{25 + 144} = \sqrt{169} = 13$ m

48. **(c)** The wrongly matched dance form and its state of origin is:
3. Mohiniyattam – Karnataka
Sattriya – Assam
Bharatanatyam – Tamil Nadu
Mohiniyattam – It actually originates from Kerala, not Karnataka.
Kuchipudi – Andhra Pradesh
Correct Answer: (c) Mohiniyattam – Karnataka (Wrongly matched)

49. **(c)** ATQ,
U, is second to the right of S
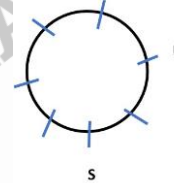
U is the neighbor of T and V and S is not a neighbor of V
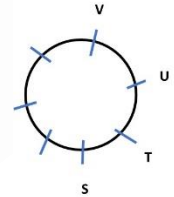
P is a neighbor of Q and R and again S is not a neighbor of Q.
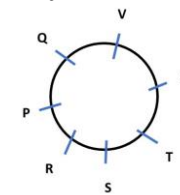
(A) V is not seated next to Q.
(B) T is sitting third to the left of Q.
(C) R is sitting third to the right of V.
(D) R and S are not neighbors.
Option (c) Only (B) and (C) are correct.

50. **(d)** Is the correct answer.
Sol. Water image of k becomes a distorted version—not the same.
The water image of z becomes a mirror-like flip vertically, which looks different from original z.
Water image of x remains x.
Water image of 0 remains 0
Correct options: (C) and (D)

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