

CUET General Test Solved Paper-2023

Held on 30 May 2023 (Shift-III)

1. The ascending order of the numbers 0.8, 0.88, 0.808, 0.08 is

(a) 0.88, 0.808, 0.8, 0.08
(b) 0.808, 0.8, 0.08, 0.88
(c) 0.08, 0.8, 0.88, 0.808
(d) 0.08, 0.8, 0.808, 0.88

2. Who said "INC (Indian National Congress) should distinguish between begging and claiming the Rights"?

(a) Aurobindo Ghosh
(b) Bal Gangadhar Tilak
(c) Bipin Chandra Pal
(d) Lala Lajpat Rai

3. Study the following arrangement carefully and answer the question given below:

RDAK7BI3MJEN67UZV1W3H4FY8P6
How many such numbers are there in the above sequence each of which is immediately preceded by a consonant and immediately followed by a vowel?

(a) Zero (b) One
(c) Two (d) Three

4. _____ is called the father of Indian Archaeology

(a) James Prinsep
(b) John Marshall
(c) Alexander Cunningham
(d) Mortimer Wheeler

5. On compound interest, ₹ 2,000 amounts to ₹ 2,226.05 in 2 years. What is the rate of interest per annum?

(a) 5% (b) 5.5%
(c) 6% (d) 6.5%

6. How many times Mithali Raj played in ICC Women's Cricket World Cup?

(a) 4 (b) 3
(c) 5 (d) 6

7. The curved surface area of a right circular cylinder of height 14 cm is 88 cm^2 . The diameter of the base of the cylinder is (Use $\pi = \frac{22}{7}$):

(a) 2 cm (b) 4 cm
(c) 5 cm (d) 0.5 cm

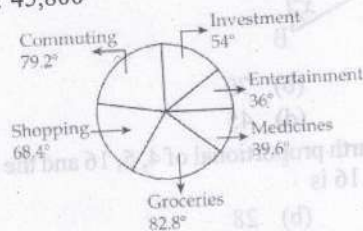
8. A whole-seller sells a jacket to a retailer at a profit of 5% and the retailer sells it to a customer at a profit of 10%. If the customer pays ₹ 4,158 for the jacket, then what was the cost price of the jacket for the wholesaler?

(a) ₹ 3,500 (b) ₹ 3,400
(c) ₹ 3,300 (d) ₹ 3,600

9. The 10th term of the A.P. 1, 5, 9, 13, is:

(a) 36 (b) 33
(c) 37 (d) 41

10. Degree-wise break-up of expenditure of a family in a month is shown in the pie chart. Total amount spent in a month is ₹ 45,800



What is the amount spent by the family on commuting?

(a) ₹ 10076 (b) ₹ 10354
(c) ₹ 6870 (d) ₹ 8702

11. An equation of the type $y = kx$ ($k \neq 0$) represents a line :

(a) passing through the origin
(b) intersecting the coordinate axes at two different points
(c) parallel to x-axis
(d) parallel to y-axis

12. Find the missing term in 1, 4, 10, 22, 46, _____?

(a) 100 (b) 98
(c) 96 (d) 94

13. Match List I with List II.

List I
(States)

List II
(Boarding Countries)

(A) Punjab, Rajasthan, Gujarat
(B) Himachal Pradesh, Uttarakhand, Sikkim, Arunachal Pradesh
(C) West Bengal, Mizoram, Meghalay, Tripura, Assam
(D) West Bengal, Sikkim, Arunachal Pradesh, Assam

(I) Bhutan

(II) Pakistan

(III) China

(IV) Bangladesh

Choose the **most appropriate** answer from the options given below:

(a) (A)-(III), (B)-(IV), (C)-(I), (D)-(II)
(b) (A)-(II), (B)-(III), (C)-(I), (D)-(IV)
(c) (A)-(III), (B)-(II), (C)-(IV), (D)-(I)
(d) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

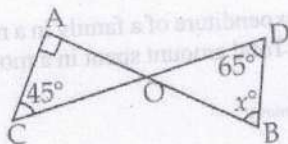
14. In which of the following Union Territories of India is the "National Meat and Poultry Processing Board" located?

(a) Chandigarh
(b) Puducherry
(c) Delhi
(d) Dader and Nagar Haveli

15. A clock is set right at 5 a.m. The clock loss 16 min in 24 h. What time will be right time when the clock indicate 10 p.m. on the 4th day?

(a) 12:30 p.m. (b) 12:00 p.m.
(c) 11:00 p.m. (d) 11:15 p.m.

16. From the figure find x .



(a) 65 (b) 70
(c) 75 (d) 45

17. The sum of the fourth proportional of 4, 5, 16 and the mean proportional of 4, 16 is

(a) 25 (b) 28
(c) 30 (d) 32

18. Which country has launched the world's first commercial moon lander?

(a) Japan (b) Russia
(c) India (d) U.S.A

19. Crescograph, a device for measuring growth in plants was invented by which Indian Scientist?

(a) Jagdish Chander Bose
(b) C. V. Raman
(c) Homi J. Bhabha
(d) Vikram Sarabhai

20. Match List I with List II.

List I

(Programme)

(A) Vande Matram Scheme

(B) Swajal Dhara Yojana

(C) Bharat Nirman Yojana

(D) Jonshree Bima Yojana

List II

(Year of Beginning)

(I) 2000

(II) 2005

(III) 2002

(IV) 2004

Choose the **most appropriate** answer from the options given below:

(a) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)
(b) (A)-(I), (B)-(II), (C)-(III), (D)-(IV)
(c) (A)-(I), (B)-(III), (C)-(IV), (D)-(II)
(d) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)

21. A, B and C started a business by investing ₹ 40,000, ₹ 50,000 and 60,000 respectively. After 8 months B withdrew ₹ 10,000. After one more month C withdrew ₹ 40,000. Find the ratio in which profit earned at the end of the year will be distributed.

(a) 4 : 5 : 6 (b) 2 : 2 : 1
(c) 12 : 14 : 15 (d) 10 : 12 : 13

22. Starting from point P, Sunil walked 30 m towards South. He turned to his left and walked 40 m. Then, he again turned

to his left and walked 30 m. Turning again to his left he walks 15 m and stops there at point N. How far is Sunil from starting point P?

(a) 30 m (b) 15 m
(c) 25 m (d) 10 m

23. The average weight of A, B and C is 60 kg. If the average weight of B and C is 50 kg and that of A and B is 52 kg, then what is the weight of B?

(a) 26 kg (b) 4 kg
(c) 30 kg (d) 32 kg

24. Find the wrong number of the series.

6400, 3200, 1600, 600, 400, 200, 100, 50

(a) 200 (b) 1600
(c) 100 (d) 600

25. Match List I with List II.

List-I

(Writer)

(A) Plato

(B) Leo Tolstoy

(C) Pt. Vishnu Sharma

(D) Sri Aurobindo

Ghosh

List-II

(Book)

(I) Panchatantra

(II) War and Peace

(III) The life Divine

(IV) Republic

Choose the **most appropriate** answer from the options given below:

(a) (A)-(IV), (B)-(II), (C)-(I), (D)-(III)
(b) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
(c) (A)-(IV), (B)-(I), (C)-(II), (D)-(III)
(d) (A)-(II), (B)-(I), (C)-(III), (D)-(IV)

26. If $\frac{2a^2 - 3b^2}{a^2 + b^2} = \frac{2}{41}$, then $a : b =$

(a) 5 : 4 (b) 25 : 16
(c) 16 : 25 (d) 4 : 5

27. Today is Monday. After 60 days it will be?

(a) Thursday (b) Tuesday
(c) Friday (d) Wednesday

28. Atmospheric Pressure is measured by _____.

(a) Pedometer (b) Thermometer
(c) Odometer (d) Barmeter

29. A certain weight (in kg) is divided into two parts such that 5 times the first part added to 11 times the second part makes 7 times the whole weight. The ratio of the first part to the second part is:

(a) 1 : 2 (b) 5 : 11
(c) 2 : 1 (d) 2 : 3

30. Study the following arrangement carefully and answer the question given below:

M D E K 7 B I 4 M J N E 7 6 Z U V W I 3 H 4 F

How many such numbers are there in the above sequence each of which is immediately preceded by a consonant and immediately followed by a vowels?

(a) Zero (b) One
(c) Two (d) Three

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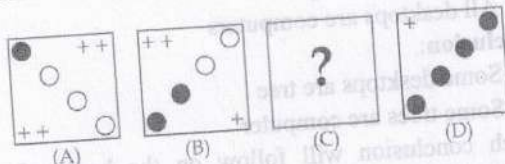
31. Find the odd pair out ?

- (a) 11 : 125 (b) 33 : 1093
(c) 35 : 1229 (d) 17 : 295

32. Find the value of $\sqrt{6 + \sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}}}$

- (a) 3 (b) 2
(c) 6 (d) $\sqrt{8}$

33. Find the missing figure from the given options.



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

34. Mohan is 14th from the left end in a row of 40 boys. What is his position from the right end ?

- (a) 21st (b) 24th
(c) 27th (d) 25th

35. Complete the figure matrix :



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

36. Find the missing term in given series ?

$$4, 6, 9, 13\frac{1}{2}, \underline{\hspace{2cm}} ?$$

- (a) $22\frac{3}{4}$ (b) $20\frac{1}{4}$
(c) 19 (d) $17\frac{1}{2}$

37. "CNG" Stands for _____.

- (a) Common Natural Gas
(b) Compressed Natural Gas
(c) Common Effective Natural Gas
(d) Compressed Neutral Gas

38. Which amongst the following is known as "Island of Pearls"?

- (a) Australia (b) Zanzibar
(c) Bahrain (d) Panama

39. Nine boys can complete a work in 360 days, 18 men can complete the same work in 72 days and 12 women can complete it in 162 days. In how many days, can 4 men, 12 women and 10 boys together, complete the work ?

- (a) 79 (b) 81
(c) 83 (d) 85

40. Which of the following article of Constitution of India is related to the Finance Commission ?

- (a) Article 21A (b) Article 280
(c) Article 324 (d) Article 124

41. Keolado Bird Sanctuary is located in _____.

- (a) Rajasthan (b) Delhi
(c) Haryana (d) Punjab

42. In a family of 6 members, D is the only son of A, E is the grandfather of D. B is the daughter-in-law of C. F is the uncle of D. C is wife of A. What is the relationship of B with D ?

- (a) Wife (b) Sister
(c) Niece (d) Aunt

43. If E = 5, PEN = 35 then PAGE = ?

- (a) 27 (b) 29
(c) 28 (d) 36

44. If $\sin 2\theta = \cos 40^\circ$, then the smallest positive value of θ is :

- (a) 25° (b) 20°
(c) 40° (d) 30°

45. **Statement :** European economy is dependent mainly of forests.

Conclusions :

- (I) Europe wants only maintenance of forests to improve economic conditions.
(II) Tree should be preserved to improve the Europe economy.

Which conclusion will follow on the basis of given statement?

- (a) Only Conclusion I follow
(b) Only Conclusion II follow
(c) Both Conclusion I and II follow
(d) Either Conclusion I and II follow

46. In which city of Punjab, railway coaches are manufactured?

- (a) Ludhiana (b) Patiala
(c) Kapurthala (d) Bhatinda

47. Which Indian Meteorological satellite has renamed as Kalpana - I in 2003 ?

- (a) INSAT-3A (b) METSAT
(c) INSAT-3C (d) GSAT-2

48. Match List I with List II.

List I (Animals)	List II (Natural Habitat)
(A) Elephants	(I) Sunderban National park
(B) Camel	(II) Gir Forest National park
(C) Indian Lion	(III) Thar Desert
(D) Tiger	(IV) The Hot Wet forest of Assam and Kerala

Choose the **most appropriate** answer from the options given below:

- (a) (A)-(IV), (B)-(III), (C)-(II), (D)-(I)
 (b) (A)-(III), (B)-(IV), (C)-(II), (D)-(I)
 (c) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
 (d) (A)-(II), (B)-(III), (C)-(IV), (D)-(I)

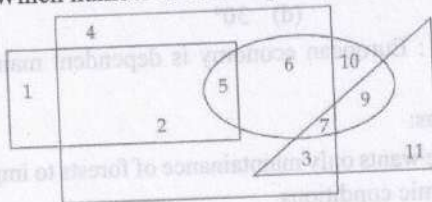
49. Given below are two statements: one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**
Assertion (A) : Milk production in India is low as compared to many countries of the world.

Reason (R) : The animal rearers in India are poor

In the light of the above statements, choose the **most appropriate** answer from the options given below:

- (a) Both (A) and (R) are correct and (R) is the correct explanation of (A)
 (b) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
 (c) (A) is correct but (R) is not correct
 (d) (A) is not correct but (R) is correct

50. Which number is in the square, ellipse and triangle ?



- (a) 7
(b) 6
(c) 5
(d) 1

51. Arrange the following group of letters arranged in the dictionary from first to last.

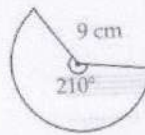
- (A) AMDNOR (B) RANDOM
 (C) ADMNOR (D) ANMDOR
 (E) ANDMOR

Choose the **most appropriate** answer from the options given below:

- (a) (C), (A), (E), (B), (D)
 (b) (C), (A), (D), (E), (B)
 (c) (C), (A), (E), (D), (B)
 (d) (C), (B), (A), (E), (D)

52. A sector as shown in the figure is assembled to form a cone. What is the base radius (in cm) of the cone so formed

$$\left(\pi = \frac{22}{7} \right)$$



- (a) 9
(b) 5.25
(c) 6.75
(d) 4.5

53. **Statements:**

- (I) No tree is desktop
 (II) All desktops are computers

Conclusion:

- (I) Some desktops are tree
 (II) Some trees are computer

Which conclusion will follow on the basis of given statement ?

- (a) Only I follow
 (b) Only II follow
 (c) Both I and II follows
 (d) Neither I nor II follows

54. Which Union Territory of India is the smallest as per its area? (area wise smallest UT)

- (a) Lakshadweep (b) Puducherry
 (c) Chandigarh (d) Delhi

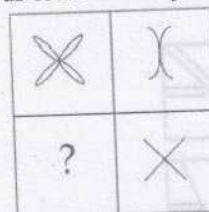
55. Life span of 'RBC' is _____.

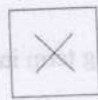
- (a) 48 Hours (b) 24 Hours
 (c) 12 Hours (d) 120 days

56. Who won the T 20 Cricket World Cup-2022 held in Australia ?

- (a) Australia (b) England
 (c) India (d) Pakistan

57. Which among the following will continue the same series as established by the given figure.



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

58. A rectangular room can be partitioned into two equal square rooms by a 7 meter long partition. What is the floor area of the rectangular room in m^2 ?

- (a) 49 (b) 98
 (c) 147 (d) 196

59. A dice is thrown twice. Find the probability of getting an odd number in the second throw and a multiple of 3 in the first throw.

- (a) $\frac{1}{2}$ (b) $\frac{1}{3}$
(c) $\frac{1}{6}$ (d) $\frac{1}{9}$

60. Two men P and Q start together from place A at 3 km/h and 3.75 km/h respectively for place B. Q reaches half an hour before P. What is the distance that each one has covered ?
(a) 7 km (b) 7.2 km
(c) 7.5 km (d) 7.8 km

Hints & Explanations

1. (d) Numbers are 0.800, 0.880, 0.808, 0.080
Arranging in ascending order
 $0.080 < 0.800 < 0.808 < 0.880$
2. (b) Bal Gangadhar Tilak was one of the most important leaders of the Indian Independence Movement. He is also known as 'Father of Indian Unrest' and belonged to the extremist faction.
3. (a) Zero
4. (c) Alexander Cunningham was a British army engineer who later took an interest in the history and archaeology of India. He was the first Director-General of the Archaeological Survey of India is often called the father of Indian Archaeology.

5. (b) Amount = $P \left(1 + \frac{R}{100} \right)^T$
Where P represents Principal, R represents Rate and T represents Time.

$$2,226.05 = 2000 \left(1 + \frac{R}{100} \right)^2$$

$$\sqrt{\frac{222605}{200000}} = \left(1 + \frac{R}{100} \right)$$

$$\sqrt{\frac{44521}{40000}} = \left(1 + \frac{R}{100} \right)$$

$$\frac{211 - 200}{200} = \frac{R}{100}$$

$$\Rightarrow R = 5.5\%$$

6. (d) Mithali Raj a prominent figure in the Indian Women's Cricket Team and she has played 6 ICC women's Cricket World Cup. She had made her maiden World Cup appearance in 2000, before playing the event in 2005, 2009, 2013, 2017 and in 2022, she became the first woman to play 6 ICC world cups.
7. (a) C.S.A. of cylinder = $2\pi rh$
A.T.Q.

$$88 = 2 \times \frac{22}{7} \times r \times 14$$

$$\Rightarrow r = 1 \text{ cm}$$

$$\text{Diameter of the base} = 2r \text{ i.e. } 2(1) = 2 \text{ cm}$$

8. (d) Let the CP of jacket to a wholesaler = Rs 100

According to question

SP of jacket when sold by wholesaler

$$= 100 + \left(100 \times \frac{5}{100} \right) = ₹105$$

SP of jacket when sold by retailer to customer

$$= 105 + \left(105 \times \frac{10}{100} \right) = ₹115.5$$

Customer pays $\rightarrow ₹4158$

$$\text{i.e. } 115.5 \rightarrow 4158$$

$$1 \rightarrow \frac{4158}{115.5}$$

$$100 \rightarrow \frac{4158}{1155} \times 1000$$

CP of jacket for wholesaler $\rightarrow ₹3,600$

9. (c) $a_n = a + (n-1)d$, where ' a_n ' is the n^{th} term and ' d ' is the common difference.

$$a = 1$$

$$d = a_2 - a_1 = 5 - 1 = 4.$$

$$a_{10} = a + (10-1)d$$

$$= 1 + (9) \cdot 4$$

$$= 37$$

10. (a) $360^\circ = 45,800$

$$1^\circ \Rightarrow \frac{45,800}{360^\circ}$$

Amount spent by the family on commuting

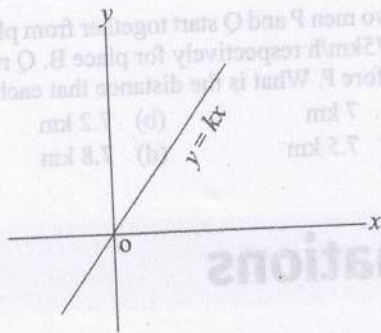
$$= \frac{45,800}{360} \times \frac{79.2}{10}$$

$$= ₹10,076$$

11. (a) Let $y = kx$, where $k \neq 0$

$$k = 1$$

x	0	1	2	3
y	0	1	2	3



Hence the equation represents a line passing through the origin.

12. (d) 1, 4, 10, 22, 46, 94
 (+3) (+6) (+12) (+24) (+48)

13. (d)

States	Bordering Countries
Punjab, Rajasthan, Gujarat	Pakistan
Himachal Pradesh, Uttarakhand, Sikkim, Arunachal Pradesh	China
West Bengal, Mizoram, Meghalaya, Tripura	Bangladesh
West Bengal, Sikkim, Arunachal Pradesh, Assam	Bhutan

14. (c) National meat and Poultry Processing Board is located in Delhi

15. (c) No. of hours between 5 am to 10 pm of the 4th day
 $= 24 \times 3 + 17 = 89$ hours
 Clock loses 16 min in 24 hours.
 i.e. clock shows 23 hrs 44 min in 24 hours

$$\text{So, } 23 + \frac{44}{60} = 24 \text{ hrs}$$

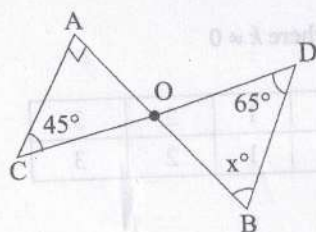
$$\text{Now, for 1 hour} = 24 \times \frac{15}{(15 \times 23 + 11)}$$

$$= 24 \times \frac{15}{356}$$

$$\text{So, for 89 hours} = 24 \times \frac{15}{356} \times 89 = 90 \text{ hours}$$

True time of clock in $(90 - 89) = 1$ hour more than the current showing time = 10 pm + 1 hour
 = 11 p.m. on 4th day.

16. (b)



In $\triangle AOC$

$\angle CAO + \angle ACO + \angle AOC = 180^\circ$ (Sum of all angles of a triangle is 180°)

$$\text{So } \angle AOC = 180^\circ - (90^\circ + 45^\circ) = 45^\circ$$

$\angle AOC = \angle DOB$ (vertically opposite angle)

So, in $\triangle DOB$

$\angle DOB + \angle OBD + \angle ODB = 180^\circ$ (Angle sum property)

$$\therefore x^\circ = 180^\circ - (45^\circ + 65^\circ)$$

$$\Rightarrow x^\circ = 70^\circ$$

17. (b) Let the fourth proportional number be x .

$$\text{So, } 4 : 5 :: 16 : x$$

$$\frac{4}{5} = \frac{16}{x}$$

$$\Rightarrow x = 20$$

$$\text{Mean proportional no.} = \sqrt{a \times b}$$

$$= \sqrt{4 \times 16} = 8$$

$$\text{Required sum} = 20 + 8 = 28$$

18. (a) World's first commercial moon Lander was launched by Japan. The commercial company is called ispace, which is based in Tokyo and shares a contract with NASA to ferry payloads to the lunar surface. The company envisions to create a permanently staffed lunar colony by the year 2040.
19. (a) Crescograph is a device that is used to measure the growth of plants. It was invented by Sir Jagdish Chandra Bose, an Indian botanist. The two important things that are used in the instrument are a smoked glass plate and the number of clockwise gears.

20. (d)

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Vande Matram Scheme	2004
Swajal Dhara yojana	2002
Bharat Nirman Yojana	2005
Jonshree Bima Yojana	2000

21. (c) Partners $\rightarrow A : B : C$

$$\text{Investment} \rightarrow \left(\frac{40,000}{\times 12} \right) : (50,000 \times 8) : (60,000 \times 9)$$

$$\text{Time period} \quad (40,000 \times 4) : (20,000 \times 3)$$

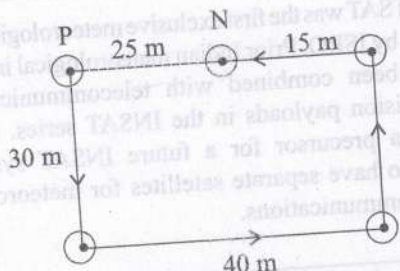
$$\text{Profit ratio} \quad 48,000 : 5,60,000 : 6,00,000$$

$$12 : 14 : 15$$

$$\text{Required ratio} \rightarrow 12 : 14 : 15$$

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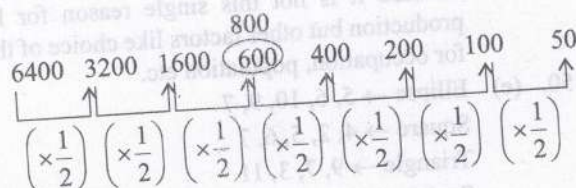
22. (c)



Sunil is 25 m far from point P.

23. (b) Total weight of A, B and C = $60 \times 3 = 180$ kg
 Total weight of B and C = $50 \times 2 = 100$ kg
 Weight of A = $180 - 100 = 80$ kg
 Total weight of A and B = $52 \times 2 = 104$ kg
 Weight of B = $104 - 80 \Rightarrow 24$ kg

24. (d)



25. (a)

Writer	Book
Plato	Republic
Leo Tolstoy	War and Peace
Pt. Vishnu Sharma	Panchatantra
Sri Aurobindo Ghosh	The life Divine

26. (a)

$$\frac{2a^2 - 3b^2}{a^2 + b^2} = \frac{2}{41}$$

$$82a^2 - 123b^2 = 2a^2 + 2b^2$$

$$80a^2 = 125b^2$$

$$\frac{a^2}{b^2} = \frac{125}{80} \Rightarrow \frac{25}{16}$$

$$-\Rightarrow \sqrt{\frac{25}{16}} = \frac{5}{4}$$

$$\Rightarrow a : b = 5 : 4$$

27. (c) After 60 days will be $\rightarrow \frac{60}{7} \rightarrow 4$ remainderMonday + 4 $\rightarrow$ Friday
"Friday" will be there

28. (d) Atmospheric pressure is measured by a Barometer, while a thermometer is used to measure temperature. Moreover, a pedometer is used to measure the physical activity of a person and an odometer is used to measure the distance travelled by a wheeled vehicle.

29. (c) Let the first point be x
and the second point be y .
According to question,

$$5(x) + 11(y) = 7(x + y)$$

$$\Rightarrow 5x + 11y = 7x + 7y$$

$$\Rightarrow -2x = -4y$$

$$\Rightarrow \frac{x}{y} = \frac{2}{1}$$

30. (a) Zero

31. (d) $(11)^2 + 4 = 125$

$$(33)^2 + 4 = 1093$$

$$(35)^2 + 4 = 1229$$

$$(17)^2 + 4 = 293 \quad \text{odd one}$$

32. (a) Let $x = \sqrt{6 + \sqrt{6 + \sqrt{6}}}$

Squaring on both the sides

$$x^2 = 6 + \sqrt{6 + \sqrt{6 + \sqrt{6}}}$$

$$\Rightarrow x^2 = 6 + x$$

$$\Rightarrow x^2 - x - 6 = 0$$

$$\Rightarrow x^2 + 2x - 3x - 6 = 0$$

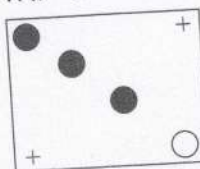
$$\Rightarrow x(x + 2) - 3(x + 2) = 0$$

$$\Rightarrow x = -2, 3$$

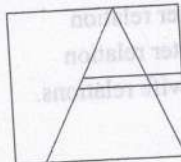
 -2 can't be possible

$$\therefore x = 3$$

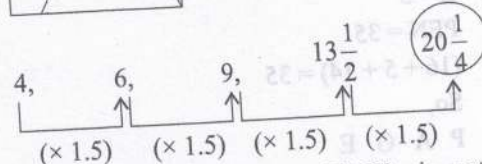
33. (d)

34. (c) Mohan position from right end = $(40 - 14) + 1 = 27^{\text{th}}$

35. (c)



36. (b)



37. (b) Compressed Natural Gas (CNG), is natural gas under pressure which remains clear, odourless, and non-corrosive. It is also a cheaper, greener, and more efficient alternative to the traditional petrol and diesel fuels for vehicles.

38. (c) Bahrain, an island nation in the Persian Gulf lying between both the Qatar peninsula and the Saudi Arabian eastern coast, is known as the "Island of Pearls."

39. (b) Work done by 9 boys in 1 day
 $= 3240$ unit $(\because 9b \times 360)$
 Work done by 18 men in 1 day = 18×72
 Work done by 12 woman in 1 day = 12×162

where, b, m and w represents boys, men and women respectively

$$\text{So, } 9b \times 360 = 18m \times 72 = 12w \times 162$$

$$\Rightarrow 5b = 2m = 3w$$

$$\Rightarrow 5b = 2m$$

$$\Rightarrow (5 \times 2)b = (2 \times 2)m$$

$$\Rightarrow 10b = 4m$$

$$\text{and } 5b = 3w$$

$$\Rightarrow (5 \times 4)b = (3 \times 4)w$$

$$\Rightarrow 20b = 12w$$

Let the no. of days taken by $(4m + 12w + 10b)$ be days

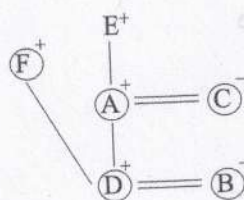
$$\text{So, } (10 + 20 + 10) \times d = 360 \times 9$$

$$\Rightarrow d = \frac{360 \times 9}{40} = 81 \text{ days}$$

40. (b) Finance Commission is a constitutional body for the purpose of allocation of certain revenue resources between the Union and the State Governments. It was established under Article 280 of the Indian Constitution by the Indian President.

41. (a) Keoladeo Bird Sanctuary is located in Rajasthan.

42. (a)



$\therefore O^+$ represents male

O^- represents female

— represents brother / sister relation

“/” represents son/daughter relation

“=” represents husband/wife relations.

B is D's wife.

43. (b) $E = 5$

$$PEN = 35$$

$$(16 + 5 + 14) = 35$$

So,

$$P A G E$$

$$(16 + 1 + 7 + 5) = 29$$

44. (a) $\sin 2\theta = \cos 40^\circ$

$$\Rightarrow \cos (90^\circ - 2\theta) = \cos 40^\circ$$

$$\Rightarrow 2\theta = 50^\circ$$

$$\Rightarrow \theta = 25^\circ$$

45. (b) Only II conclusion follows because it is clear from the given statement that economy is dependent mainly on forest and to improve economy trees should be preserved.

46. (c) The Indian Railways have two major factories for the manufacturing of railways coaches. There is a Rail coach factory located in Kaputhala and Integral Coach Factory (ICF) is a manufacturer of rail coaches situated in Perambur, Chennai, India.

47. (b) METSAT was the first exclusive meteorological satellite built by ISRO. Prior Indian meteorological instruments had been combined with telecommunication and television payloads in the INSAT series. METSAT was a precursor for a future INSAT system that was to have separate satellites for meteorology and telecommunications.

48. (a)

Animal	Natural Habitat
Elephants	The hot wet forest of Assam and Kerala
Camel	Thar Desert
Indian Lion	Gir Forest
Tiger	Sunderban National Park

49. (c) Assertion is correct but the reason is not correct because it is not this single reason for low milk production but other factors like choice of the people for occupation, population etc.

50. (e) Ellipse $\rightarrow 5, 6, 10, 9, 7$

Square $\rightarrow 4, 2, 5, 6, 7$

Triangle $\rightarrow 9, 7, 3, 11$

So, it is clearly '7' is there common to all three figures.

51. (c) (C) ADMNOR

(A) AMDNOR

(E) ANDMOR

(D) ANMDOR

(B) RANDOM

52. (b) Length of the arc = $\frac{\theta^\circ}{360^\circ} \times 2\pi r$

$$\Rightarrow \frac{21}{36} \times 2 \times \frac{22}{7} \times 9$$

$$\Rightarrow \frac{21 \times 11}{7} \text{ cm}$$

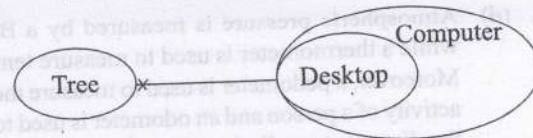
$$\text{Circumference of circle formed along the arc} = \frac{21 \times 11}{7}$$

$$\therefore 2\pi r = \frac{21 \times 11}{7}$$

$$r = \frac{21 \times 11 \times \cancel{7}}{\cancel{7} \times 22 \times 2}$$

$$r = \frac{21}{4} = 5.25 \text{ cm}$$

53. (d)



- (I) Conclusion I does not follow.

- (II) Conclusion II does not follow as there is no clear relation between computer and trees
So, neither I nor II follows.

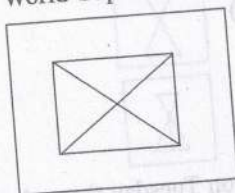
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54. (a) India's smallest Union Territory Lakshadweep is an archipelago consisting of 36 islands with an area of 32 sq km. It is a uni-district Union Territory and comprises of 12 atolls, three reefs, five submerged banks and ten inhabited islands. The islands have a total area of 32 sq km

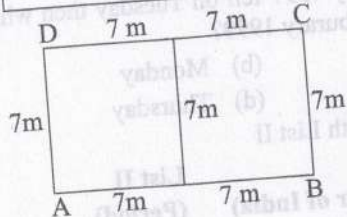
55. (d) Normal human red blood cells have an average life span of about 120 days in the circulation after which they are engulfed by macrophages. This is an extremely efficient process as macrophages phagocytose about 5 million erythrocytes every second without any significant release of hemoglobin in the circulation.

56. (b) The England Men Cricket team won the T 20 Cricket World Cup 2022, held at Australia.

57. (d)



58. (b)



$$AB = (7 + 7) = 14 \text{ m}$$

$$BC = 7 \text{ m}$$

$$\text{Area of rectangular room} = L \times B$$

$$\Rightarrow 14 \times 7 \Rightarrow 98 \text{ m}^2$$

59. (c) Total case = 36

Favourable case

$$= (3, 1), (3, 3), (3, 5), (6, 1), (6, 3), (6, 5)$$

$$P(E) = \frac{6}{36} = \frac{1}{6}$$

60. (c) P $\xrightarrow{3 \text{ km/hr}}$

A $\xrightarrow{3.75 \text{ km/hr}}$ B

According to question,

$$\frac{x}{3.75} = \frac{x}{3} - \frac{1}{2}$$

$$\Rightarrow \frac{x}{3} - \frac{100x}{3.75} = \frac{1}{2}$$

$$\Rightarrow \frac{125x - 100x}{375} = \frac{1}{2}$$

$$\Rightarrow 50x = 375$$

$$\Rightarrow x = 7.5 \text{ km}$$