

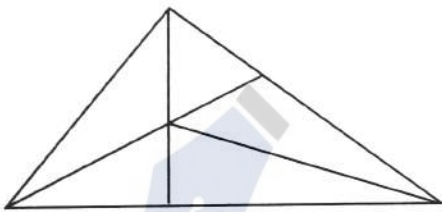
# CUET 2023

## General Test (24 May 2023)

### Previous Year Paper

### With Solutions

1. Pratap starts from school and walk 7 km towards East. He takes left and walks 4 km then takes a right and walk 2 km. Again takes a right and walks 3 km. Which direction is he facing now?
- (a) West (b) East  
(c) North (d) South
2. Find how many triangle are there in the given figure?



- (a) 12 (b) 11  
(c) 16 (d) 10
3. According to Indian literatures who is known as father of Plastic Surgery?
- (a) Charka (b) Sudhruta  
(c) Panini (d) Patanjali
4. In  $\triangle ABC$  with  $AB = 5$  cm,  $BC = 12$  cm,  $AC = 13$  cm and  $\angle B = 90^\circ$ , which of the following is/are not correct?

- A.  $\tan C = \frac{12}{13}$  B.  $\operatorname{cosec} A = \frac{13}{12}$   
C.  $\sin B = \frac{5}{13}$  D.  $\tan A = \frac{12}{15}$   
E.  $\cos C = \frac{12}{13}$

Choose the **correct** answer from the options given below:

- (a) A, B and C only (b) A and B only  
(c) A, C and D only (d) B, C and D only
5. Match List - I with List - II.
- | List - I<br>(Vitamin) | List - II<br>(Deficiency Disease) |
|-----------------------|-----------------------------------|
| A. Vitamin - A        | I. Scurvy                         |
| B. Vitamin - C        | II. Rickets                       |
| C. Vitamin - D        | III. Non-clotting of blood        |
| D. Vitamin - K        | IV. Colour blindness              |

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

- (a) A-I, B-IV, C-II, D-III (b) A-IV, B-I, C-II, D-III  
(c) A-IV, B-I, C-III, D-II (d) A-I, B-IV, C-III, D-II
6. Find the wrong number in given series :  
89, 78, 86, 80, 85, 82, 83  
(a) 78 (b) 86  
(c) 82 (d) 83
7. P, Q, R, S, T are sitting around a circular table and all are facing the centre of table. R is to the right of P and second of the left of S. T is not between P and S. Who is second to the left of R ?  
(a) P (b) Q  
(c) S (d) T
8. Who has been awarded the Booker Prize 2022?  
(a) Annie Ernaux (b) Mallika Sarabhai  
(c) Arundhati Roy (d) Shehan Karunatilaka
9. The largest Salt Water Lake in India is \_\_\_\_\_.  
(a) Wular Lake (b) Chilka Lake  
(c) Loktak Lake (d) Dal Lake
10. If 1st January 2001 was Monday. Then which day of week was it on 31 December 2001?  
(a) Monday (b) Wednesday  
(c) Friday (d) Saturday
11. The area of four walls of a rectangular hall having length 18 m and height 8 m is  $448 \text{ m}^2$ . What is the breadth of the hall (in m) ?  
(a) 10 (b) 9  
(c) 8 (d) 7
12. One of the Harappan site known as Kalibangan is located in which state of India?  
(a) Rajasthan (b) Gujarat  
(c) Madhya Pradesh (d) Punjab
13. Rahul told Anand "yesterday I defeated the only brother of the daughter of my grandmother". Whom did Rahul Defeated?  
(a) Son (b) Brother  
(c) Father-in-Law (d) Father

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14. If arithmetic mean and geometric mean of roots of a quadratic equation are 8 and 5 respectively, then the quadratic equation is:

- (a)  $x^2 + 8x + 5 = 0$       (b)  $x^2 - 8x + 25 = 0$   
(c)  $x^2 + 16x + 25 = 0$       (d)  $2x^2 - 8x + 25 = 0$

15. A shop and a car were sold for ₹ 2,70,000 each. Due to increased scope of business, shop was sold at a profit of 20% but due to depreciation, car could be sold at a loss of 10%. How much profit or loss resulted in the entire transaction?

- (a) Loss ₹ 5,000      (b) Loss ₹ 10,000  
(c) Profit ₹ 15,000      (d) Profit ₹ 15,480

16. Which of the following fundamental right has been removed from our Constitution?

- (a) Right against exploitation  
(b) Right to Constitutional remedies  
(c) Right to Property  
(d) Right to freedom of religion

17. 44% of a number is 2288. What will be 87% of the number?

- (a) 3614      (b) 4524  
(c) 4815      (d) 3928

18. Find the missing term in given series:

1, 9, 25, 49, 81,     ?, 169

- (a) 91      (b) 144  
(c) 121      (d) 64

19. Find the coordinates of centroid of  $\Delta ABC$  if the mid point of BC is D(2, 4) and vertex A is 2, -3).

- (a) (1, 0)      (b)  $(0, -\frac{2}{5})$   
(c) (2, 5)      (d)  $(2, \frac{5}{3})$

20. Match List - I with List - II.

**List - I**  
**(Boundary Lines)**

**List - II**  
**(Countries Sharing borders)**

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| A. 38 <sup>th</sup> Parallel Line | I. Between U.S.A and Canada        |
| B. Durand Line                    | II. Between India and China        |
| C. MacMohan Line                  | III. Between North and South Korea |
| D. 49 <sup>th</sup> Parallel Line | IV. Between India and Afghanistan  |

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

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

21. The sides of a triangle are in the ratio  $\frac{1}{3} : \frac{1}{4} : \frac{1}{5}$ . If the semi-perimeter of the triangle is 47 cm, then what is the length of the longest side?

- (a) 20 cm      (b) 40 cm  
(c) 44 cm      (d) 30 cm

22. The value of  $\sqrt[4]{(625)^3}$  is:

- (a) 110      (b) 25  
(c) 125      (d) 115

23. In the following question, select the related number pair from the given alternatives:

15 : 256 :: 18 :     ?

- (a) 360      (b) 361  
(c) 261      (d) 461

24. 64 solid iron spheres of radius r are melted to form a sphere of radius R. Find R : r.

- (a) 2 : 1      (b) 3 : 1  
(c) 8 : 1      (d) 4 : 1

25. The mean of scores obtained by 50 students is found to be 79.5. Later on, it was found that the score of one student was read as 94 in place of 49 and the score of another student was read as 69 in place of 89. Find the correct mean.

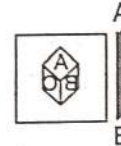
- (a) 85.52      (b) 79.35  
(c) 79      (d) 78

26. An interior angle of a regular polygon is  $135^\circ$ . The polygon is a/an :

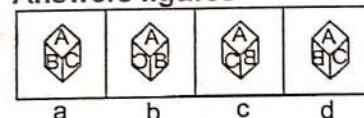
- (a) hexagon      (b) square  
(c) pentagon      (d) octagon

27. In the following question, if a mirror is placed on the line AB, then which of the answer figures is the right image of the given figure?

**Problem figure**



**Answers figures**



- (a) a      (b) b  
(c) c      (d) d

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28. Given below are two statements:

**Statement (I)** : All natural numbers are rational numbers.

**Statement (II)** : 1 is the smallest prime number.

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

- (a) Both **Statement I** and **Statement II** are correct
- (b) Both **Statement I** and **Statement II** are incorrect
- (c) **Statement I** is correct but **Statement II** is incorrect
- (d) **Statement I** is incorrect but **Statement II** is correct

29. **Statements:**

(I) All Forces are energies

(II) All energies are powers

(III) No power is heat

**Conclusions :**

(I) Some forces are definitely not powers

(II) No heat is force

Which of the following conclusions can be definitely drawn from the statements given in the question.

- (a) If only (I) follows
- (b) If only (II) follows
- (c) If both (i) and (II) follows
- (d) If neither (I) nor (II) follows

30. The digits and numbers from 1 to 12 represented by the dial of a clock are replaced by the letter of English alphabet. The replacement is started with the letter C. Find the letter which is represented by 9 O'clock. Consider hour hand only.

- (a) N
- (b) H
- (c) J
- (d) K

31. Match **List - I** with **List - II**.

<b>List - I</b> (Quantities)	<b>List - II</b> (Units)
A. Force	I. coulomb
B. Charge	II. hertz
C. Heat	III. newton
D. Frequency	IV. joule

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

32. Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

**Assertion (A)** : Leakages in house hold gas cylinders can be detected.

**Reason (R)** : LPG has a strong smell.

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

33. A cuboidal slab of copper having dimensions 22 cm × 10 cm × 5 cm is melted and recasted in the form of a wire of 1 mm diameter. The wire is rubber coated at the rate of Rs. 1.50 per meter. Find the cost of rubber coating (in ₹) (Use  $\pi = \frac{22}{7}$ )

(a) 525

(b) 650

(c) 2100

(d) 2600

34. How many languages are presently scheduled in the Indian Constitution?

- (a) 14
- (b) 21
- (c) 22
- (d) 18

35. Lift was invented by \_\_\_\_\_.

- (a) Richard Gatling
- (b) E.G. Otis
- (c) K.G. Jhonson
- (d) J.C. Perier

36. The age of a tree can be calculated by \_\_\_\_\_.

- (a) Measuring its height
- (b) Measuring the thickness of the trunk
- (c) Measuring the width of the tree
- (d) Measuring the number of annual rings

37. Among A, B, C, D and E having a different amount of money, C has more money than only E, B and A. Who among them has the highest amount of money?

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

38. By knowing to pH value of a liquid we can find the :

- (a) density of the liquid
- (b) viscosity of the liquid
- (c) acidity of the liquid
- (d) pressure of the liquid

39. For a certain period, simple interest on ₹ 1000 at 10% per annum is ₹ 100 more than that on ₹ 800. Find the period (in years).

- (a) 4 (b) 10  
(c) 5 (d) 2

40. Who amongst the following was shocked by Chauri-Chaura incident which took place in Gorakpur and withdrew Non-Cooperation movement on 5<sup>th</sup> Feb, 1922?

- (a) Mohandas Karamchand Gandhi  
(b) Sardar Vallabhbhai Patel  
(c) Motilal Nehru  
(d) Lala Lajpat Rai

41. Match List - I with List - II.

List - I (Sobriquets)	List - II (Names)
A. Sorrow of Bengal	I. Udaipur
B. Vennice of East	II. River Kosi
C. Sorrow of Bihar	III. Ahmedabad
D. Bostan of India	IV. River Damodar

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

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

42. Match List - I with List - II.

List - I (Name of Sanctuaries)	List - II (Locations)
A. Achanaknar	I. Jammu and Kashmir
B. Dachigam	II. Karnataka
C. Chandraprabha	III. Uttar Pradesh
D. Bhadra	IV. Chattisgarh

Choose the **most appropriate** 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-II, D-III (d) A-I, B-IV, C-III, D-II

43. Consider the following pairs:

- A. International Women's Day - 08 March  
B. World Earth Day - 22 March  
C. International Labour Day - 01 May  
D. International Yoga Day - 21 May  
E. World Health Day - 07 April

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

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

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44. A 110 m long train takes 3 seconds to pass a pole. How long is the platform if the train passes it in 15 seconds?

- (a) 440 m (b) 400 m  
(c) 550 m (d) 450 m

45. Match List - I with List - II.

List - I (Alloys)	List - II (Composition)
A. Amalgum	I. Cu + Zn
B. Brass	II. Pb + Sn
C. Bronze	III. Cu + Sn
D. Solder	IV. Metal + Hg

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

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

46. A pair of dice is thrown. What is the probability of getting the sum of numbers on the two faces an odd-prime number?

- (a)  $\frac{7}{18}$  (b)  $\frac{1}{6}$   
(c)  $\frac{1}{2}$  (d)  $\frac{5}{12}$

47. Match List - I with List - II.

List - I	List - II
A. $14 - \frac{x-1}{10} = \frac{x+5}{6} - 3$	I. 4
B. $(x-5)^2 - (x+3)^2 = 48$	II. $-\frac{23}{2}$
C. $6(x-4) = 4(x-3) - (3x-8)$	III. 61
D. $(2x-1)(2x+3) = (2x-7)(2x+7)$	IV. -2

Choose the **correct** answer from the options given below:

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

48. Who is known as the Father of "Indian Space Program"?

- (a) Dr. C.V. Raman  
(b) Vikram Sara Bhai  
(c) Subramanyan  
(d) Dr. A.P.J. Abdul Kalam

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49. If the average weight of 10 students is 25 kg and that of other 10 students is 35 kg, then the average weight of these 20 students is:

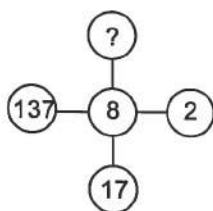
- (a) 30 kg (b) 35 kg  
(c) 25 kg (d) 20 kg

50. Correct the following equation by Interchanging the two signs:

$$4 \times 2 + 6 \div 2 - 12 = 2$$

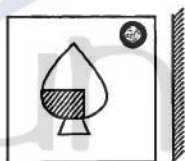
- (a)  $\div$  and  $\times$  (b)  $+$  and  $-$   
(c)  $\times$  and  $+$  (d)  $\div$  and  $-$

51. Find missing term:



- (a) 9107 (b) 907  
(c) 1097 (d) 97

52. Choose the **most appropriate** Mirror-Image of the figure.



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

53. The central rice research station is situated in \_\_\_\_\_.

- (a) Raipur (b) Chennai  
(c) Bangalore (d) Cuttack

54. Here are some words translated from an artificial language

- hirpa nig means bat ball  
kirpa nig means foot ball  
kirpa nad means foot mark

Which word would mean "mark sheet" ?

- (a) hirpa kirpa  
(b) nad tyan  
(c) hirpa nad  
(d) kirpa na

55. A and B working together can do a work in 10 days. If A can do the work in 15 days, then how many days will B take to do the same work ?

- (a) 40 (b) 30  
(c) 20 (d) 25

56. Match List - I with List - II.

**List - I**

- A. Bharatnatyam  
B. Kathak  
C. Odissi  
D. Kuchipudi

**List - II**

- I. Sonal Mansingh  
II. Lakshmi Narayan Shastri  
III. Krishna Iyer  
IV. Sitara Devi

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

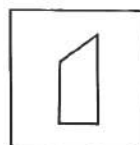
- (a) A-II, B-III, C-I, D-IV  
(b) A-IV, B-III, C-II, D-I  
(c) A-I, B-II, C-IV, D-III  
(d) A-III, B-IV, C-I, D-II

57. The difference between two numbers P and Q ( $P > Q$ ) is 40% of their sum. The ratio P : Q is :

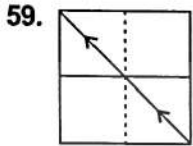
- (a) 6 : 4  
(b) 7 : 3  
(c) 8 : 5  
(d) 5 : 4

58. Choose the alternative figure in which the problem figure is embedded?

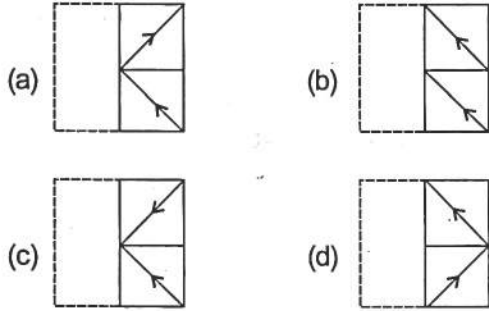
**Problem figure**



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



After folding the above figure along the dotted line, which figure will be obtained :



60. Find the missing term ?

20160	4
?	4
480	8
96	24

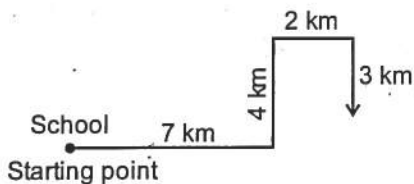
- (a) 1140  
(b) 2880  
(c) 3240  
(d) 860

**Answer Keys** [www.fundamakers.com](http://www.fundamakers.com)

1. (d)    2. (a)    3. (a)    4. (c)    5. (b)    6. (b)    7. (b)    8. (d)    9. (b)    10. (a)  
11. (a)    12. (a)    13. (d)    14. (c)    15. (c)    16. (c)    17. (b)    18. (c)    19. (d)    20. (b)  
21. (b)    22. (c)    23. (b)    24. (d)    25. (c)    26. (d)    27. (a)    28. (c)    29. (b)    30. (d)  
31. (c)    32. (a)    33. (c)    34. (c)    35. (b)    36. (d)    37. (b)    38. (c)    39. (c)    40. (a)  
41. (c)    42. (a)    43. (b)    44. (a)    45. (a)    46. (a)    47. (c)    48. (b)    49. (a)    50. (a)  
51. (c)    52. (a)    53. (d)    54. (b)    55. (b)    56. (d)    57. (b)    58. (b)    59. (a)    60. (b)

**Explanations**

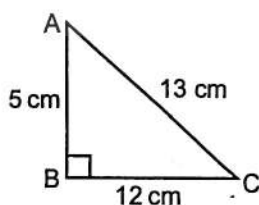
1. d



Pratap is now facing South.

2. a There are 12 triangles in the given figure.  
3. a Sushruta is considered the "Father of Plastic Surgery." He lived in India sometime between 1000 and 800 BC, and is responsible for the advancement of medicine in ancient India.

4. c



$$\therefore \tan C = \frac{5}{12}, \operatorname{cosec} A = \frac{1}{\sin A} = \frac{1}{12/13} = \frac{13}{12}$$

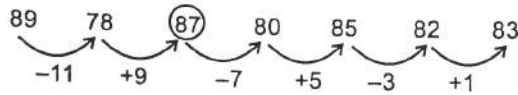
$$\sin B = \frac{13}{13} = 1, \tan A = \frac{12}{5}, \operatorname{cosec} C = \frac{12}{13}$$

5. b Option two is correctly matched. Vitamin A deficiency can be defined clinically or subclinically. Xerophthalmia is the clinical spectrum of ocular manifestations of vitamin A deficiency; these range from the milder stages of night blindness and Bitot spots to the potentially blinding stages of corneal xerosis, ulceration and necrosis (keratomalacia). Vitamin C deficiency, also known as scurvy, is a disease primarily associated with socioeconomic status and access to food. Severe vitamin D deficiency can also lead to other diseases: In children, it can cause rickets. In adults, severe vitamin D deficiency

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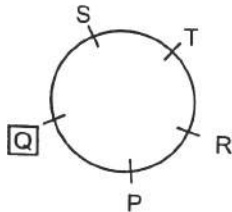
leads to osteomalacia. The main symptoms of a vitamin K deficiency include bruising easily and excess bleeding (Non clotting of blood).

6. b Given series:- 89, 78, 86, 80, 85, 82 and 83  
To find the wrong number



∴ 86 is the wrong number.

7. b



Q is second to the left of R.

8. d Shehan Karunatilaka's second novel won the Booker Prize in 2022. It is a searing, mordantly funny satire set amid the murderous mayhem of a Sri Lanka beset by civil war. Shehan Karunatilaka's second novel won the Booker Prize in 2022.
9. b Chilika Lake is the largest saltwater lake in India. The lake spreads across the districts of Puri, Khurda, and Ganjam in the state of Odisha in eastern India.
10. a Year 2001 is a leap year so it will contain 365 days.  
From 1st January 2001 to 31st December 2001 there are 364 days.  
Odd days =  $364/7 = 0$  Remainder.  
Hence, 31st December 2001 = Monday
11. a Let  $l$ ,  $b$  and  $h$  be length, breadth and height respectively such that  $l = 18$  cm and  $h = 8$  cm.  
Area of four walls of cuboid =  $448$  cm<sup>2</sup> =  $2h(l + b)$   
 $448$  cm<sup>2</sup> =  $2(8)(18 + b)$   
Solve for  $b$  and get,  
 $b = 10$ cm.
12. a Kalibangan, ancient site of the Indus valley civilization is located in Rajasthan state. The site contains both pre-Harappan and Harappan remains, and therein can be seen the transition between the two cultures.
13. d Rahuls' grandmother's daughter is Rahul's paternal Aunt.  
Her brother is Rahul's father.  
So, Rahul defeated his father.

14. c Let the roots of the equation be  $a$  and  $b$  then  
 $a + b = 16$  and  $ab = 25$

So, option (c) is satisfying the conditions.

15. c Shop and car both were sold for Rs. 2,70,000 each.

Cost price of shop and car is 225000 and 300000 respectively.

Overall profit/loss =  $540000 - 225000 - 300000 =$  Rs. 15000

Hence, profit of Rs. 15000 resulted in the entire transaction.

16. c Right to property was a fundamental right in the Indian Constitution until it was amended in 1978. Article 19(1)(f) and Article 31 dealt with it. The 44th Amendment Act of 1978 abolished the right to property as a Fundamental Right by repealing Articles from Part III. Instead, the Act added a new Article 300A under the heading 'Right to Property' to Part XII. The right to property is still a legal or constitutional right, but it is no longer a fundamental right. It is not a part of the Constitution's basic structure.

17. b Let the number be  $x$ .

Then,  $0.44x = 2288$

$x = 5200$

$0.87(5200) = 4524$

18. c The series is square of the consecutive odd numbers starting from 1. Hence missing term is square of 11 that is., 121.

19. d Given  $A = (2, -3)$  is a vertex of the triangle. D is mid-point of the BC.

Hence AD is median of the triangle. As per the property of a triangle, the centroid G is such that  $AG = 2 DG$ .

Let  $(a, b)$  be the coordinates of the point G.

$a = [1 \times 2 + 2 \times 2]/3 = 2$

$b = [1 \times (-3) + 2 \times 4]/3 = 5/3$

Hence Coordinates of the centroid are  $(2, 5/3)$ .

20. b Option two is correctly matched. 38th parallel, popular name given to latitude  $38^\circ$  N that in East Asia roughly demarcates North Korea and South Korea. 49th Parallel is the boundary between USA and Canada. The Durand Line is the international border between Afghanistan and Pakistan (British India). The McMahon Line serves as the de facto boundary between China and India in the Eastern Sector.

21. b Given ratio :  $1/3 : 1/4 : 1/3$   
 $= (60/3) : (60/4) : (60/5) = 20 : 15 : 12.$   
 [Note that the perimeter for this is  
 $= (20 + 15 + 12)k = 47k]$   
 Given that the semiperimeter is 47 cm so  
 Perimeter = 94 cm.  
 Hence, longest side =  $2 \times 20 = 40$  cm.

22. c  $\sqrt[4]{625^3} = 5^{(4 \times 3)/4} = 125.$

23. b  $15 : 16^2 : : 18 : 19^2 = 361.$

24. d  $4\pi R^3 = 64 \times 4\pi r^3 \Rightarrow R^3 : r^3 = 64 : 1$   
 $\Rightarrow R : r = 4 : 1.$

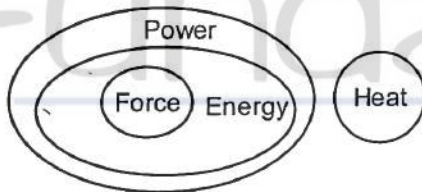
25. c Let the correct mean be M.  
 $\Rightarrow M \times 50 = 50 \times 79.5 - 94 + 49 - 69 + 89$   
 $\Rightarrow M = 79.$

26. d Exterior angle =  $180^\circ - 135^\circ = 45^\circ$   
 Hence, number of sides =  $360^\circ/45^\circ = 8.$

27. a The correct mirror image is given in option (a).

28. c (I) All natural numbers are rational numbers, is true.  
 (II) 1 is the smallest prime number, is not true.  
 Hence, option (c) is correct.

29. b Only II follows.



30. d Starting with C (in place of 1), if we proceed sequentially we will get K in place of 9.
31. c Option three is correctly matched. The SI unit recognized for the measurement of force is *Newton*. The SI unit of electric charge is the coulomb. As a form of energy, heat has the unit joule (J) in the International System of Units (SI). The SI unit for frequency is the hertz (Hz).
32. a We can say that leakages in household gas cylinders can be detected as LPG has a strong smell. So both (A) and (R) are correct and (R) is the correct explanation of (A).
33. c Let the length of wire be x cm.  
 $\Rightarrow \pi \times (0.01/4) \times x = 22 \times 10 \times 5$   
 $\Rightarrow x = 140000$  cm = 1400 m  
 Required cost =  $1.5 \times 1400 = \text{Rs. } 2,100.$

34. c The Eighth Schedule to the Constitution consists of the following 22 languages: Assamese, Bengali, Gujarati, Hindi, Kannada, Kashmiri, Konkani, Malayalam, Manipuri, Marathi, Nepali, Oriya, Punjabi, Sanskrit, Sindhi, Tamil, Telugu, Urdu, Bodo, Santhali, Maithili and Dogri.
35. b Elisha Graves Otis (1811-1861) - was an American scientist and the founder of Otis Elevator Company. He invented the lift in the year 1852. He also invented the safety device that prevents elevators from falling if the hoisting cable fails.
36. d The most accurate way to determine the age of a tree is to *count the annual rings of wood growth*.
37. b The correct order according to the question is :  $D > C > E, B, A$   
 Hence, D has the highest amount.
38. c In chemistry, pH, also referred to as acidity or basicity, historically denotes "potential of hydrogen". It is a scale used to specify the acidity or basicity of an aqueous solution. A lower pH means that there are more hydrogen ions in the liquid, whereas a higher pH indicates fewer hydrogen ions in the liquid. In simple terms, pH is a scale from 1 to 14 that measures the acidity or alkalinity of a liquid.
39. c According to the question,  
 $[1000 \times 0.1 \times t - 800 \times 0.1 \times t] = 100$   
 $\Rightarrow t = 100/20 = 5$  years.
40. a The Chauri Chaura Incident took place on 4 February 1922 at Chauri Chaura in the Gorakhpur district of United Provinces (now Uttar Pradesh) in British India. The police there fired upon a large group of protesters participating in the Non-cooperation movement. In retaliation, the demonstrators attacked and set fire to a police station, which killed all of its occupants. The incident led to the death of three civilians and 22 policemen. Mahatma Gandhi halted the Non-Cooperation Movement on the national level on 12 February 1922 as a direct result of the incident. In spite of Gandhi's decision, 19 arrested demonstrators were sentenced to death and 14 to life imprisonment by the British colonial authorities.
41. c Option three is correctly matched. River Damodar is known as "Bengal's sorrow" because of its ravaging floods in the plains of West Bengal. River Kosi is known as the



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“Sorrow of Bihar” because of the annual effects of floods. *Udaipur* is famous for its history, culture, and scenic beauty and is called the ‘Venice of the East’. Ahmedabad is popularly known as the Boston of India.

- 42. a** Option one is correctly matched. The Achanakmar-Amarkantak Biosphere Reserve is a biosphere reserve in India that extends across the states of Madhya Pradesh and Chhattisgarh, covering a total area of 383,551 hectares. Dachigam National Park is a national park located, 22 kilometres from Srinagar city in Srinagar district of Jammu and Kashmir, India on the east side of Dal Lake. Chandra Prabha Wildlife Sanctuary is a wildlife reserve situated in Chandauli district of Uttar Pradesh. Bhadra Wildlife Sanctuary is a protected area and tiger reserve is located in Karnataka.
- 43. b** Option two is correctly matched. *International Women’s Day (IWD)* is a global holiday celebrated annually on March 8. Earth Day is an annual event on April 22 to demonstrate support for environmental protection. International Labour Day, popularly known as International Workers’ Day or May Day is observed on *May 01 every year*. The International Day of Yoga has been celebrated across the world annually on June 21 since 2015, following its inception in the United Nations General Assembly in 2014. World Health Day (WHD), held every year on *7 April*, marks the anniversary of the founding of the World Health Organization (WHO) in 1948.
- 44. a** Speed of the train =  $110/3$  m/s  
Let the length of the platform be  $x$ .
- Then, 
$$\frac{110+x}{\frac{110}{3}} = 15$$
- $\Rightarrow 110 + x = 550 \Rightarrow x = 440$  m.
- 45. a** Option one is correctly matched. Amalgam is an alloy of mercury with one or more metals. Sodium along with liquid mercury is known as sodium amalgam. Amalgam of mercury with tin, silver and zinc is widely used in dental filling. The alloy which is formed by the mixture of Copper (Cu) and Zinc (Zn) is Brass. Bronze is a solid alloy of 88% copper and 12% tin by mass. Bronze is an alloy made by mixing copper (Cu) and tin (Sn). Solder is an alloy of lead (Pb) and tin (Sn).

- 46. a** Total number of cases =  $6 \times 6 = 36$   
The number of cases when sum is a prime number is (1, 1), (1, 2), (1, 4), (1, 6), (2, 1), (2, 3), (2, 5), (3, 2), (3, 4), (4, 1), (4, 3), (5, 2), (5, 6), (6, 1), (6, 5).
- Except (1, 1) in all other cases the sum is an odd prime number.  
Hence, required probability =  $14/36 = 7/18$ .
- 47. c** List I:
- (A)  $14 - \frac{x-1}{10} = \frac{x+5}{6} - 3$   
 $\Rightarrow 420 - 3x + 3 = 5x + 25 - 90$   
 $\Rightarrow x = 61$
- (B)  $(x-5)^2 - (x+3)^2 = 48$   
 $\Rightarrow (x-5+x+3)(x-5-x-3) = 48$   
 $\Rightarrow 2x-2 = -6 \Rightarrow x = -2$
- (C)  $6(x-4) = 4(x-3) - (3x-8)$   
 $\Rightarrow 6x-24 = 4x-12-3x+8$   
 $\Rightarrow 5x = 20 \Rightarrow x = 4$
- (D)  $(2x-1)(2x+3) = (2x-7)(2x+7)$   
 $\Rightarrow 4x^2+6x-2x-3 = 4x^2+14x-14x-49$   
 $\Rightarrow 4x = -46 \Rightarrow x = -23/2$   
Hence, the answer is (A) – (III), (B) – (IV), (C) – (I), (D) – (II).
- 48. b** Dr. Vikram Sarabhai, a trailblazing visionary, is widely hailed as the father of the Indian space program. He was an Indian physicist and astronomer who initiated space research and helped to develop nuclear power in India.
- 49. a** Average =  $(10 \times 25 + 10 \times 35)/20 = 30$  kg
- 50. a**  $4 \times 2 + 6 \div 2 - 12 = 2 \Rightarrow 4 \div 2 + 6 \times 2 - 12 = 2$ .
- 51. c**  $8 \times 2 + 1 = 17$   
 $8 \times 17 + 1 = 137$   
 $8 \times 137 + 1 = 1097$
- 52. a** The figure given in option (a) is the image image.
- 53. d** The Central Rice Research Station is situated in *Cuttack, Odisha*. The outbreak of devastating epiphytotic brown spot disease of rice (*Helminthosporium spp*) in 1942 in the then Bengal Province (the areas of which are now in the state of West Bengal in India and Bangladesh resulted in a serious shortage of rice. Added to this, the failure of the civil administration to cope with such a disastrous situation culminated in what was called the

Great Bengal Famine of 1943. With this background, the Central Government, in the year 1944, decided to intensify research on all aspect of rice crop. In 1945, the Government of India decided to establish a central Institute for rice research.

54. b nig = ball, hirpa = bat, kripa = bat, nad = mark  
Hence, nad tyan means 'mark sheet'.
55. b Let the number of days taken by B to complete the work be x day.  
Then,  $\frac{1}{15} + \frac{1}{x} = \frac{1}{10}$   
 $\Rightarrow \frac{1}{x} = \frac{1}{10} - \frac{1}{15} = \frac{1}{30}$   
 $\Rightarrow x = 30$  days.
56. d Option four is correctly matched. Sonal Mansingh is an Indian classical dancer and Guru in Bharatanatyam and Odissi dancing style. *Lakshmi Narayana Sastri*, and his son Jagannatha Sarma, opened the Kuchipudi

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dance form to women. E. Krishna Iyer (9 August 1897 – January 1968) was an Indian lawyer, freedom-fighter, classical artist and activist. He was the follower of traditional Isaivellalar practitioners of Sadir, also known as Bharatanatyam. Sitara Devi was an Indian dancer of the classical Kathak style of dancing, a singer, and an actress.

57. b  $P - Q = 40/100 (P + Q)$   
 $\Rightarrow P - Q = 0.4P + 0.4Q$   
 $\Rightarrow 0.6P = 1.4Q$   
 $\Rightarrow P : Q = 7 : 3.$
58. b The given is hidden in the figure given in option (b).
59. a The answer is option (a).
60. b  $4 \times 1 = 4; 4 \times 2 = 8; 8 \times 3 = 24; 24 \times 4 = 96;$   
 $96 \times 5 = 480; 480 \times 6 = 2880; 2880 \times 7 = 20160.$

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