

SAMPLE CONTENT



10

**PRACTICE
PAPER SET**



IN ACCORDANCE WITH THE LATEST CUET (UG) PAPER CONDUCTED BY



CUET (UG)

Common University Entrance Test

**GENERAL
TEST**

Section - III CODE: 501

Features:

- ▶ Created as per the syllabus prescribed by NTA
- ▶ In accordance with the latest CUET (UG) Question Paper
- ▶ Contains a variety of questions, formulated through a comprehensive analysis of CUET (UG) 2023 examination paper
- ▶ Set of 10 Practice Papers along with their Answers and Solutions
- ▶ Inclusion of Explanations wherever necessary

Includes
Solved Question
Papers for
CUET (UG)
2022 & 2023

Target Publications[®] Pvt. Ltd.

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(Common University Entrance Test)

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 - CUET (UG) 2022 23rd August
 - CUET (UG) 2023 1st June
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PREFACE

The Common University Entrance Test, (CUET (UG) is a crucial milestone for students as they progress towards their undergraduate education. It is the sole opportunity for them to get admission into premier undergraduate institutions and courses after the completion of Class XII.

Target Publications, with more than a decade of experience and expertise in the domain of competitive examinations, offers ‘**CUET (UG) 10 Practice Paper Set – General Test**’ for all CUET (UG) aspirants. The book comprises 10 Practice Papers along with their Answers and Solutions.

MCQs are meticulously curated after a thorough analysis of the CUET (UG) 2023 Examination. The compilation of diverse question types serves as an invaluable resource for exam preparation. This also aligns with the learning objectives, subject matter and cognitive skills expected of CUET (UG) aspirants.

Inclusion of **Explanations**, where deemed necessary, ensures that students gain conceptual clarity and learn the quickest methods they can use to solve seemingly complex questions.

The core objective of the book is to help students gauge their preparedness to appear for the CUET (UG) 2024 examination, as it includes a beautiful assortment of MCQs in the form of Practice Papers Test as per the latest paper pattern.

The book also includes solved question papers for CUET (UG) 2022 (23rd August) and CUET (UG) 2023 (1st June).

Apart from mastery of the subject content, we hope that this book will also help students achieve objectives such as time management and develop their ability to utilize the paper-pattern format (choice of questions to attempt) to their advantage in order to maximize their scores.

We hope that the book helps the learners as we have envisioned.

Publisher

Edition: Second

The journey to create a complete book is strewn with triumphs, failures and near misses. If you think we’ve nearly missed something or want to applaud us for our triumphs, we’d love to hear from you.

Please write to us on: mail@targetpublications.org

Disclaimer

This reference book is based on the CUET (UG) syllabus prescribed by National Testing Agency (NTA). We the publishers are making this reference book which constitutes as fair use of textual contents which are transformed by adding and elaborating, with a view to simplify the same to enable the students to understand, memorize and reproduce the same in examinations.

Every care has been taken in the publication of this reference book by the Authors while creating the contents. The Authors and the Publishers shall not be responsible for any loss or damages caused to any person on account of errors or omissions which might have crept in or disagreement of any third party on the point of view expressed in the reference book.

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Common University Entrance Test [Undergraduate] Information and Features at a glance

Broad features of CUET (UG)

Mode of Examination: Hybrid Mode					
Sections	Subjects/ Tests	Questions to be Attempted	Marks per Question	Question Type	Duration
Section IA - Languages	There are 13 different languages. Any of these languages may be chosen.	40 questions out of 50 in each language	5	<ul style="list-style-type: none"> Language to be tested through Reading Comprehension based on different types of passages– Factual, Literary and Narrative, [Literary Aptitude and Vocabulary] MCQ Based Questions 	45 Minutes for each language
Section IB - Languages (Optional)	There are 20 Languages. Any other language apart from those offered in Section I A may be chosen.				
Section II - Domain	There are 27 Domains specific Subjects being offered under this Section. A candidate may choose a maximum of 4 or 5 Domains subjects as desired by the applicable University/ Universities.	40 Questions to be attempted out of 50	5	<ul style="list-style-type: none"> MCQs based on syllabus given on NTA website i.e NCERT Class XII syllabus only 	Duration for all test papers would be 45 minutes except for Mathematics/Applied Mathematics, Accountancy, Physics, Chemistry, Economics, Computer Science/Informatics Practices which would be 60 minutes
Section III General Test	For any such undergraduate programme/ programmes being offered by Universities where a General Test is being used for admission.	50 questions out of 60	5	<ul style="list-style-type: none"> General Knowledge, Current Affairs, General Mental Ability, Numerical Ability, Quantitative Reasoning (Simple application of basic mathematical arithmetic/algebra geometry/mensuration /stat taught till Grade 8), Logical and Analytical Reasoning 	60 Minutes
<p>-Maximum 06 Test papers (04 or 05 domain subjects including General Test and 01 or 02 languages). -Candidates may choose a maximum 06 Subjects including languages (Indian and Foreign) and General Test Note: It is advisable for candidates to select at least one language</p>					

Candidates are advised to visit the NTA CUET (UG) official website <https://cuetsamarth.ac.in/> for the latest updates regarding the Examination.

Syllabus for CUET (UG) – General Test

- General Knowledge
- Current Affairs
- General Mental Ability
- Numerical Ability
- Quantitative Reasoning (Simple application of basic mathematical concepts arithmetic/algebra geometry/mensuration/stat taught till Grade 8)
- Logical and Analytical Reasoning

CUET (UG) Exam Pattern

Sections	Subjects/ Tests	Questions to be Attempted	Marks per Question	Total Marks	Duration
Section IA - Languages	There are 13 different languages. Any of these languages may be chosen.	40 questions out of 50 in each language	5	200	45 Minutes for each language
Section IB - Languages	There are 20 Languages. Any other language apart from those offered in Section I A may be chosen.				
Section II - Domain	There are 27 Domains specific Subjects being offered under this Section. A candidate may choose a maximum of Six Domains as desired by the applicable University/ Universities.	40 questions out of 50 in each subject	5	200	45 Minutes for each Domain Specific Subjects
Section III General Test	For any such undergraduate programme / programmes being offered by Universities where a General Test is being used for admission.	50 questions out of 60	5	250	60 Minutes

Candidates are advised to visit the NTA CUET (UG) official website <https://cuet.samarth.ac.in/> for latest updates regarding the Examination.

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Time allowed: 60 Minutes

Max. Marks: 250

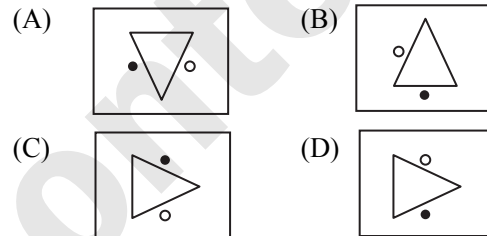
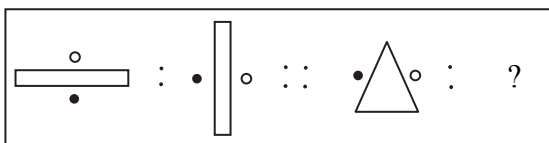
Instructions:

- This paper consists of 60 questions out of which 50 questions need to be attempted.
- The correct answer or the most appropriate answer will be given Five marks (+5).
- Any incorrect answer will be given minus One mark (-1).
- Unanswered / Marked for Review will be given No marks (0).
- If more than one option is found to be correct then Five marks (+5) will be awarded to only those who have marked any of the correct options.
- If all options are found to be correct then Five marks (+5) will be awarded to all those who have attempted the question.
- If none of the options is found correct or a question is found to be wrong or a question is dropped then Five marks (+5) will be awarded to all those who have appeared.
- Calculator / any electronic gadgets are not permitted.

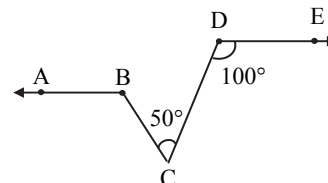
- Find the angle between hour-hand and minute-hand in a clock at ten past eleven.
(A) 90° (B) 95°
(C) 80° (D) 85°
- At what time will both needles align in a straight line between 3 and 4 o'clock?
(A) 3: 49.09 (B) 3:45.5
(C) 3:50 (D) None of the above
- Which of the following incidents made Gandhiji to put an end to the Non-Cooperation Movement?
(A) Komagata Maru (B) Jallianwala Bagh
(C) Chauri Chaura (D) Kakori
- Match the following items in Column A to those in Column B and choose the correctly matched pair:

Column A		Column B	
(i)	Andhra Pradesh	(a)	Imphal
(ii)	Chhattisgarh	(b)	Raipur
(iii)	Manipur	(c)	Shillong
(iv)	Meghalaya	(d)	Amaravati

- (A) (i) – (b), (ii) – (d), (iii) – (c) and (iv) – (a)
 (B) (i) – (b), (ii) – (d), (iii) – (a) and (iv) – (c)
 (C) (i) – (b), (ii) – (c), (iii) – (a) and (iv) – (d)
 (D) (i) – (d), (ii) – (b), (iii) – (a) and (iv) – (c)
- Sanju bought goods worth ₹ 1600 and sold them for ₹ 2800. What was his profit in percentage?
(A) 33% (B) 55%
(C) 75% (D) 90%
 - Select a suitable figure from the given options that would replace the question mark (?).



- In a row, Aryan is 15th from the left end, while Simran is 56th from the right end and 16th to the right of Rohan. Determine the total number of persons in this queue.
(A) 83
(B) 94
(C) 65
(D) Can't be determined
- Which day is celebrated as the International Day of Happiness?
(A) 20th March (B) 18th June
(C) 16th October (D) 14th December
- Which of the following is the capital of Belarus?
(A) Bishkek (B) Vienna
(C) Yerevan (D) Minsk
- In the given figure, if ray BA || ray DE, then find the measure of ∠ABC.



- (A) 130° (B) 120°
 (C) 100° (D) 150°
- If December 15th, 2007, was a Saturday, then what day of the week was it on December 15th, 2006?
(A) Thursday (B) Friday
(C) Sunday (D) Tuesday



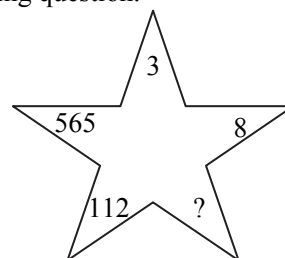
12. A and B together can complete a task in 12 days, B and C together in 15 days, and C and A together in 20 days. What is the amount of time A alone needs to accomplish the task?
(A) 30 days (B) 27 days
(C) 32 days (D) 25 days
13. Who among the following invented barbed wire?
(A) Joseph Glidden (B) Henrik Dam
(C) Elias Howe (D) Igor Sikorsky
14. If 15 workers can build a wall in 48 hours, how many workers will be required to do the same work in 30 hours?
(A) 24 (B) 12
(C) 36 (D) 48
15. What is the total number of workers in the factory if the average wage is ₹6000, 12 officers earn an average of ₹14000, and the remaining workers earn an average of ₹5600?
(A) 242 (B) 252
(C) 240 (D) 230
16. Match the following items in Column A to those in Column B and choose the correctly matched pair:

	Column A		Column B
(i)	Golden Temple	(a)	Maharashtra
(ii)	Kashi Vishwanath Temple	(b)	Punjab
(iii)	Siddhivinayak Temple	(c)	Uttar Pradesh
(iv)	Mahabodhi Temple	(d)	Bihar

- (A) (i) – (b), (ii) – (d), (iii) – (c) and (iv) – (a)
(B) (i) – (b), (ii) – (c), (iii) – (a) and (iv) – (d)
(C) (i) – (b), (ii) – (d), (iii) – (a) and (iv) – (c)
(D) (i) – (d), (ii) – (b), (iii) – (a) and (iv) – (c)

17. Presence of which among the following minerals in Banana makes them slightly radioactive?
(A) Sodium (B) Calcium
(C) Magnesium (D) Potassium
18. If the average of 6 consecutive even numbers is 25, the difference between the largest and the smallest number is
(A) 8 (B) 10
(C) 12 (D) 14
19. Who is the author of the book 'To Kill a Mockingbird'?
(A) J.D. Salinger (B) Harper Lee
(C) William Golding (D) Truman Capote

20. Which of the following movements started with breaking the salt law?
(A) Non-cooperation Movement
(B) Civil Disobedience Movement
(C) Quit India Movement
(D) Home Rule Movement
21. What is the full form of SIM?
(A) Subscriber Information Module
(B) Subscriber Invitation Module
(C) Subscriber Identification Module
(D) Subscriber Identity Module
22. There is a circular path around a sports field. Sonia takes 18 minutes to drive one round of the field, while Ravi takes 24 minutes for the same. Suppose they both start at the same point and at the same time, and go in the same direction. After how many minutes will they meet again at the starting point?
(A) 48 (B) 54
(C) 72 (D) 36
23. A series is given with letters missing. Choose the set of letters that, when sequentially placed, shall complete it.
_ aa _ ba _ bb _ ab _ aab
(A) aabb (B) baba
(C) bbaab (D) bbbaa
24. In a certain code, 'LEMON' is written as 'MNLDK'. How is 'PEACH' written in that code?
(A) GBZDO (B) CHAEP
(C) HCAEP (D) GBDZO
25. From the given alternatives, choose the number that can replace the question mark (?) in the following question.



- (A) 13 (B) 18
(C) 27 (D) 63
26. Choose the pair in which the words are differently related from the rest.
(A) Shirt : Dress (B) Boy : Girl
(C) Mango : Fruit (D) Table : Furniture
27. According to the U.N.'s World Economic Situation and Prospects 2024 report, which region is expected to have the highest GDP growth in 2024?
(A) European Union (B) East Asia
(C) South Asia (D) Western Asia



28. With reference to the currency stock of India, which of the following includes the Narrow Money?

- Currency held by the public
- Demand Deposits
- Time Deposits

Select the correct option from the codes given below:

- (A) Only i (B) Only i & ii
(C) i, ii & iii (D) Only i & iii

29. Which of the given options shares a similar relationship with the third number as the first and second numbers do with each other?

$$18 : 27 :: 36 : ?$$

- (A) 54 (B) 45
(C) 63 (D) 72

30. Find the smallest number which leaves remainders 18 when divided by 27 and 33.

- (A) 297 (B) 279
(C) 315 (D) 612

31. How many official languages does the United Nations Organization have?

- (A) Ten (B) Eight
(C) Six (D) Four

32. If the system of equations $3x + y = 1$ and $(2k - 1)x + (k - 1)y = 2k + 1$ is inconsistent, then $k =$

- (A) -1 (B) 0
(C) 1 (D) 2

33. Identify the word that doesn't belong with the others.

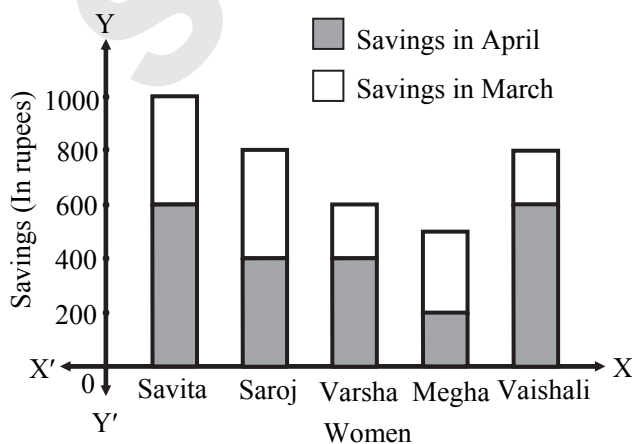
- (A) Octopus (B) Toad
(C) Crab (D) Alligator

34. Which of the given options shares a similar relationship with the third word as the first and second words do with each other?

$$\text{Oak} : \text{Tree} :: \text{Tulip} : ?$$

- (A) Petal (B) Stem
(C) Flower (D) Root

35. Observe the following graph and find how much more is the total savings of Savita than the total savings of Megha?



- (A) ₹ 100 (B) ₹ 400
(C) ₹ 500 (D) ₹ 300

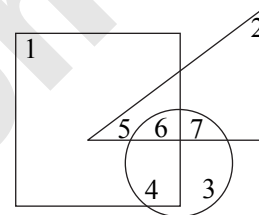
36. T, U, V, Y, W, and Z are sitting in a row. W and Z are in the centre. T and U are at the ends. V is sitting to the immediate left of T. Who is to the immediate right of U?

- (A) V (B) Y
(C) W (D) Z

37. A vehicle running at a speed of 48 km/hr takes 6 hours to complete the journey. How much time will be taken to complete the journey if its speed is 72 km/hr?

- (A) 5.5 hours (B) 4 hours
(C) 4.5 hours (D) 5 hours

38. In the provided Venn diagram, determine the number that indicates the individuals who are both wise and experienced, considering the square represents experienced men, the circle represents wise men, and the triangle represents lecturers.



- (A) 2 (B) 7 (C) 6 (D) 5

39. **Statements:** No gate is frog. All the frogs are sheep.

Conclusions:

- No gate is sheep.
- No sheep is gate.
- Some sheep are frogs.
- All the sheep are frogs.

- (A) Only (ii) and (iv) (B) Only (i) and (iii)
(C) Only (iii) and (iv) (D) Only (iii)

40. Sameer has taken a loan of ₹ 12,500 at the rate of 12% p.a. for 3 years. If the interest is compounded annually then how many rupees should he pay to clear his loan?

- (A) ₹ 15,661.60 (B) ₹ 17,561.60
(C) ₹ 17,761.60 (D) ₹ 14,761.60

41. The Davis Cup is associated with which of the following sports?

- (A) Cricket (B) Football
(C) Tennis (D) Hockey

42. Snehal has a red ribbon that is 80 cm long and a blue ribbon 2.20 m long. What is the ratio of the length of the red ribbon to that of the blue ribbon?

- (A) 11/4 (B) 4/11
(C) 24/11 (D) 11/84

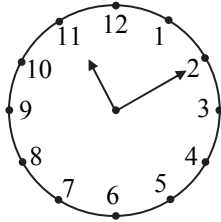
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To see complete chapter buy **Target Notes**

Practice Paper – 01

1. (D)

At 11:10, the minute-hand is at mark 2 and hour-hand has crossed $\left(\frac{1}{6}\right)^{\text{th}}$ of the angle between 11 and 12.



Angle between two consecutive marks = 30°
 Angle traced by hour-hand in 10 minutes = 5°
 Angle between marks 11 and 2 = $3 \times 30^\circ = 90^\circ$

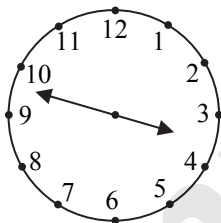
\therefore Angle between two hands of the clock at ten past eleven = $90^\circ - 5^\circ = 85^\circ$

2. (A)

If hour hand is between 3 and 4, then minute hand must be between 9 and 10.

So, the required time must be more than 3:45.

After 3:45, hour-hand has crossed $\left(\frac{3}{4}\right)^{\text{th}}$ of the angle between 3 and 4.



Angle between two consecutive marks = 30°

\therefore Angle form by hour-hand at 3:45 = $90^\circ + \frac{3}{4}(30^\circ)$
 $= \frac{225^\circ}{2}$

Angle form by minute-hand at 3:45 = 270°

Note that in 1 second, angle traced by minute-hand is $\frac{1^\circ}{10}$ and by hour-hand is $\frac{1^\circ}{120}$.

Let t seconds after 3:45, the angle between two hands of the clock is 180° .

i.e., $\left(270^\circ + \frac{1^\circ}{10}t\right) - \left(\frac{225^\circ}{2} + \frac{1^\circ}{120}t\right) = 180^\circ$

$\therefore t = \frac{2700}{11}$ seconds = $\frac{45}{11}$ minutes ≈ 4.09 minutes

\therefore Required time = 3:45 + 4.09 minutes = 3:49.09

3. (C)

4. (D)

5. (C)

Cost price = ₹ 1600, Selling price = ₹ 2800

Profit = Selling price – Cost price
 $= 2800 - 1600 = ₹ 1200$

Let Sanju make profit of $x\%$.

$$\therefore \frac{x}{100} = \frac{1200}{1600}$$

$$\therefore \frac{x}{100} \times 100 = \frac{1200}{1600} \times 100$$

....(Multiplying both sides by 100)

$$\therefore x = \frac{1200 \times 100}{1600}$$

$$\therefore x = 75\%$$

\therefore Sanju made a profit of 75%.

6. (C)

First figure is rotated 90° clockwise to form the second figure.

Hence, the figure (C) will replace the ‘?’.

7. (D)

To find out the total number of individuals in a row, we need to know the position of a person from the left end and the position of a person from the right end, and there must be a relation between these two persons.

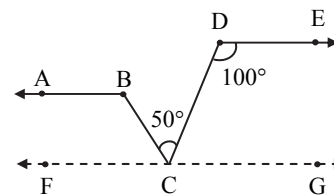
In this case, the positions of Aryan, Simran, and Rohan are given, but there is no direct relation between them.

Hence, the given data is not sufficient to answer this question.

8. (A)

9. (D)

10. (A)



Now, line $FG \parallel$ ray DE and seg DC is their transversal.

$\therefore \angle DCF = 100^\circ$...[Alternate angles]

$\therefore \angle BCF = 100^\circ - 50^\circ = 50^\circ$

Now, line $FG \parallel$ ray BA and seg BC is their transversal.

$\therefore \angle ABC + \angle BCF = 180^\circ$...[Interior angles]

$\therefore \angle ABC + 50^\circ = 180^\circ$

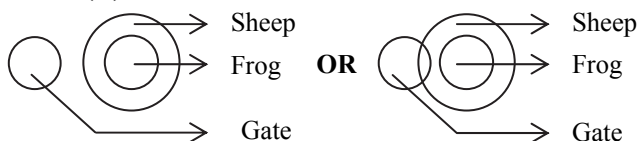
$\therefore \angle ABC = 130^\circ$



11. (B)
The year 2006 is a non-leap year.
 \therefore There are 365 days = 7 weeks + 1 day
 \therefore Day on a date in 2007
= Day on the same date in 2006 + 1
Given that, 15th Dec, 2007 was Saturday.
 \therefore 15th Dec, 2006 is Friday.
12. (A)
A and B can do a piece of work in 12 days
 \therefore Work done by A and B in 1 day = $A + B = 1/12$
B and C can do a piece of work in 15 days
 \therefore Work done by B and C in 1 day = $B + C = 1/15$
A and C can do a piece of work in 20 days
 \therefore Work done by A and C in 1 day = $A + C = 1/20$
By adding A, B and C, we get
 $2(A+B+C)$
 $= 1/12 + 1/15 + 1/20$
 $= (5+4+3)/60$
 $= 12/60$
 $= 1/5$
 \therefore Work done by A, B and C in 1 day
 $= 1/(5 \times 2) = 1/10$
A's 1 day work
 $= (A+B+C)$'s 1 day work - $(B+C)$'s 1 day work
 $= 1/10 - 1/15$
 $= 1/30$
 \therefore A alone can finish the work in $1/(1/30)$
 $= 30$ days.
13. (A)
14. (A)
Let's denote the number of workers employed to build the wall in 30 hours as y .
It's evident that as the number of workers increases, the time required to complete the work decreases, indicating an inverse proportionality between the number of hours and the number of workers.
Expressing this relationship mathematically, we have $48 \times 15 = 30 \times y$
 $y = 48 \times 15/30 = 24$
In other words, to finish the work in 30 hours, 24 workers are needed.
15. (B)
Let there are n employee in factory.
 $6000 = [12 \times 14000 + (n + 2) \times 5600] \div n$
 $\therefore 6000n = 168000 + 5600n - 67200$
 $\therefore n = 252$
16. (B)
17. (D)
Bananas contain a radioactive isotope of potassium called potassium-40, rendering them slightly radioactive. While the radiation emitted is minimal and poses no threat to humans, it is sufficient to activate sensitive radiation sensors.
18. (B)
Let the 6 consecutive even numbers be $x, x + 2, \dots, x + 10$
Required difference = $x + 10 - x = 10$
19. (B)
20. (B)
The Civil Disobedience Movement, also known as the Salt March or Dandi March, commenced in March 1930 with Mahatma Gandhi breaking the Salt Law. Leading a group from Sabarmati Ashram to Dandi, covering 240 miles in 24 days, Gandhi defied the salt tax by producing salt from sea water.
21. (D)
22. (C)
 $18 = 2 \times 3 \times 3 = 2 \times 3^2$
 $24 = 2 \times 2 \times 2 \times 3 = 2^3 \times 3$
 \therefore Required time = LCM (18, 24) = $2^3 \times 3^2 = 72$
 \Rightarrow Sonia and Ravi will meet again at the starting point after 72 minutes.
23. (C)
The series is baab/baab/baab/baab.
Thus, the pattern 'baab' is repeated.
Therefore, the correct set of letters is bbaab.
24. (A)
Reverse the word and move each letter -1.
Reverse of PEACH is HCAEP, subtract 1 from each letter of GBZDO.
So, the code for PEACH becomes GBZDO.
25. (C)
Here we start with 3 in clockwise direction:
 $3(2) + 2 = 8,$
 $8(3) + 3 = 27,$
 $27(4) + 4 = 112,$
 $112(5) + 5 = 565$
Hence, the required number is 27.
26. (B)
In all other pairs, the second word denotes the class to which the first belongs.
27. (C)
According to the World Economic Situation and Prospects 2024 report by the United Nations, South Asia is anticipated to undergo substantial GDP growth in the upcoming year. The forecast indicates a 5.2% increase in the region's GDP, primarily propelled by the robust economic expansion in India, which maintains its status as the world's fastest-growing large economy.
28. (B)
Narrow money encompasses physical currency such as coins and paper money, in addition to demand deposits and other liquid assets held by the central bank. Time deposits are excluded from the calculation of narrow money.



29. (A)
As $18 = 9 \times 2$ and $27 = 9 \times 3$,
Similarly, $36 = 18 \times 2$
Hence, the required number $= 18 \times 3 = 54$.
30. (C)
We first find the smallest number divisible by both 27 and 33, i.e., LCM (27, 33).
 $27 = 3^3$
 $33 = 3 \times 11$
 \therefore L.C.M (27, 33) $= 3^3 \times 11 = 297$
 \therefore Required number $= 297 + 18 = 315$
31. (C)
32. (D)
According to the given condition,
 $\frac{3}{2k-1} = \frac{1}{k-1}$
 $\therefore 3k - 3 = 2k - 1$
 $\therefore k = 2$
33. (A)
All animals except Octopus Amphibians.
34. (C)
Oak is a type of tree, and similarly, Tulip is a type of flower.
35. (C)
Savita's total saving $= ₹ 1000$,
Megha's total saving $= ₹ 500$
Difference in their savings $= 1000 - 500 = ₹ 500$
36. (B)
The seating arrangement is as follows:
U, Y, W, Z, V, T
OR
U, Y, Z, W, V, T
Therefore, to the right of U is Y.
37. (B)
Let us assume the speed of vehicle to be s and time taken to travel be t .
There is inverse variation in speed and time.
 $s \propto 1/t$
 $s \times t = k$ (k is constant)
 $k = s \times t = 48 \times 6 = 288$
Now, let us find t when $s = 72$.
 $s \times t = 288$
 $72 \times t = 288$
 $t = 288 / 72 = 4$
 \therefore Time taken to travel the same distance at the speed 72 km/hr is 4 hours.
38. (C)
39. (D)



40. (B)
Here, $P = ₹ 12,500$, $R = 12$ p.c.p.a. and
 $N = 3$ years
 $A = P \left[1 + \frac{R}{100} \right]^N$
 $= 12,500 \left[1 + \frac{12}{100} \right]^3$
 $= 12,500 \left[\frac{100+12}{100} \right]^3$
 $= 12,500 \left[\frac{112}{100} \right]^3$
 $= 12,500 \left[\frac{28 \times 4}{25 \times 4} \right]^3$
 $= 12,500 \left[\frac{28}{25} \right]^3$
 $= 12,500 \times \frac{28}{25} \times \frac{28}{25} \times \frac{28}{25}$
 $= \frac{20}{25} \times 28 \times 28 \times 28$
 $= 0.8 \times 28 \times 28 \times 28$
 $= ₹ 17,561.60$

41. (C)
42. (B)
1 metre $= 100$ cm
Length of the red ribbon $= 80$ cm
Length of the blue ribbon
 $= 2.20$ m $= 2.20 \times 100$ cm
 $= \frac{220}{100} \times \frac{100}{1} = \frac{220 \times 100}{100 \times 1} = 220$ cm
 \therefore Ratio of length of the red ribbon to that of the blue ribbon $= \frac{\text{Length of red ribbon}}{\text{Length of blue ribbon}}$
 $= \frac{80 \text{ cm}}{220 \text{ cm}} = \frac{80 \div 20}{220 \div 20} = \frac{4}{11}$
43. (B)
Note that the sum of a rational and an irrational numbers is an irrational number.
As π is an irrational number and $-\frac{22}{7}$ is a rational number, their sum is an irrational number.
44. (C)
 $2002 = 2 \times 7 \times 11 \times 13$
 $1040 = 2^4 \times 5 \times 13$
Required number of students
 $= \text{HCF} (2003, 1040)$
 $= 2 \times 13 = 26$

Page no. **51** to **83** are purposely left blank.

To see complete chapter buy **Target Notes**

CUET UG - 2022 Question Paper

23rd August 2022

1. In which city is Major Dhyana Chand Sports University established?
 (A) New Delhi (B) Amritsar
 (C) Meerut (D) Ahmedabad

2. Match List-I with List-II.

List-I		List-II	
a.	Abhijeet Banerjee	I.	Peace
b.	Kailash Satyarthi	II.	Literature
c.	C.V. Raman	III.	Economics
d.	Rabindranath Tagore	IV.	Physics

Choose the correct answer from the options given below:

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

3. The rate at which banks part short-term excess liquidity with RBI, is called.
 (A) Repo Rate
 (B) Reverse Repo Rate
 (C) Bank Rate
 (D) Cash Reserve Ratio

4. Who has designed the National Flag of India?
 (A) Sarojini Naidu
 (B) Subhash Chandra Bose
 (C) Pingali Venkayya
 (D) C. Rajagopalachari

5. Which among the following are considered as Vedangas?
 (a) Kalp (b) Ayurveda
 (c) Vyakaran (d) Manu Smriti
 (e) Jyotish

Choose the correct answer from the options given below:

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

6. Match List-I with List-II.

List-I		List-II	
a.	Smriti Zubin Irani	I.	India vs UK: The Story of an Unprecedented Diplomatic Win

b.	Dr. Shankar Acharya	II.	An Economist at Home and Abroad: A Personal Journey
c.	Syed Akbaruddin	III.	Lal Salaam: A Novel
d.	Brijinder Nath Goswamy	IV.	Conversations: India's Leading Art Historian engages with 101 themes, and more

Choose the correct answer from the options given below:

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

7. Match List-I with List-II.

List-I		List-II	
a.	United Nations World Tourism Organization	I.	Paris, France
b.	UNESCO	II.	Madrid, Spain
c.	World Trade Organization	III.	Washington D.C., U.S
d.	IMF	IV.	Geneva, Switzerland

Choose the correct answer from the options given below:

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

8. Match List-I with List-II.

List-I		List-II	
a.	World Lion Day	I.	26 August
b.	World Elephant Day	II.	10 August
c.	World Mosquito Day	III.	12 August
d.	World Dog Day	IV.	20 August

Choose the correct answer from the options given below:

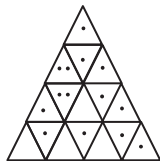
- (A) (a) – (III), (b) – (I), (c) – (II), (d) – (IV)
 (B) (a) – (IV), (b) – (II), (c) – (III), (d) – (I)
 (C) (a) – (II), (b) – (III), (c) – (IV), (d) – (I)
 (D) (a) – (III), (b) – (II), (c) – (I), (d) – (IV)



9. 2021 Yidan Prize for Education Development for improving learning outcomes in schools at scale has given to
- Eric A. Hanushek
 - Angeline Murimirwa
 - Lucky Lake
 - Dr. Rukmini Banerji
- Choose the correct answer from the options given below:
- (A) (a) and (b) only (B) (b) and (d) only
(C) (a) and (d) only (D) (c) and (d) only
10. Which actor (Drama) won the Best actor award of "Golden Globe Award's 2022;
- (A) Will Smith (B) Andrew Garfield
(C) Kodi Smit (D) Jane Campion
11. _____ of the total surface area of the earth is covered with water?
- (A) 72.5% (B) 66.7%
(C) 70.8% (D) 71.6%
12. PROM stands for
- (A) Programmable Read Only Memory
(B) Programmed Random Only Memory
(C) Programmable Random Objective Memory
(D) Programmed Random Objective Memory
13. _____ is the structural and functional unit of kidneys.
- (A) Nucleon (B) Ribosome
(C) Nephron (D) Urochrome
14. The speed of light is:
- (A) 3×10^8 m/s (B) 3×10^3 m/s
(C) 8×10^3 m/s (D) 8×10^8 m/s
15. Who is the first man to climb to Mount Everest without Oxygen?
- (A) Sherpa Tenzing Norgay
(B) Sir Edmund Hillarys
(C) Sir Everest
(D) Messner and Habder
16. Choose the essential word from the options given below:
- (A) Tractor (B) Plough
(C) Land (D) Spade
17. A father said to his child, "I was as old as you are at the time of your birth". If the father's age is 48 years now, the child's age six year back was:
- (A) 15 years (B) 16 years
(C) 17 years (D) 18 years
18. Abundant : Scarce :: Artificial : ?
- (A) Manmade (B) Sparse
(C) Meager (D) Genuine
19. GFE : KJI :: ONM : ?
- (A) SRT (B) SRQ
(C) TSR (D) RQP
20. Contaminated : Sinful :: Immense : ?
- (A) Tiny (B) Gigantic
(C) Brave (D) Beautiful
21. Ganga : Kanpur :: Narmada : ?
- (A) Bhopal (B) Amarkantak
(C) Ahmedabad (D) Jodhpur
22. Arrange the following words in the sequence they will appear in a dictionary:
- Mechanics
 - Mathematics
 - Monuments
 - Measurement
 - Magnitude
- Choose the correct answer from the option given below:
- (A) b, c, a, e, d (B) a, c, d, e, b
(C) d, a, c, e, b (D) e, b, d, a, c
23. If 'BHARAT' stands for 'B-8-A-18-A-20 and 'England' Stands for E-14-G-12-A-14-D then how will you code the SRILANKA?
- (A) S-18-I-12-A-14-11-A
(B) S-15-I-9-A-11-10-A
(C) S-17-I-11-A-13-K-1
(D) S-18-I-12-A-14-K-1
24. Arpit travelled 3 km east from his home, then 2 km north followed by 3 km to east. He took a 90° right turn and walked 5 km straight, then he again took a right turn and walked 6 km more. How far is he now his home?
- (A) 5 km (B) 3 km
(C) 6 km (D) 2 km
25. Complete the series: 29, 31, 37, 41, 43 _____
- (A) 45 (B) 47
(C) 49 (D) 51
26. Today is Friday : After 91 days, it will be:
- (A) Wednesday (B) Thursday
(C) Friday (D) Saturday
27. Compete the series:
15, 24, 35, 48, 63 _____
- (A) 80 (B) 89
(C) 94 (D) 99
28. Complete the series:
76, 62, _____ ? _____ 34, 20, 6
- (A) 56 (B) 48
(C) 43 (D) 36
29. In this question, four words have been given of which three are alike in some way and one is different. Find the odd one out.
- (A) Motorcycle (B) Metro
(C) Bus (D) Car



30. How many triangles are in the given shape?



- (A) 21 (B) 23
(C) 27 (D) 29

31. Anita, Baby and Charu are sisters. D is the brother of E and E is the Daughter of Baby. How is Anita related to D?

- (A) Niece (B) Sister
(C) Cousin (D) Aunt

32. When seen through a mirror, a clock shown 8 : 30. What is the correct time?

- (A) 2:30 (B) 3:30
(C) 5:30 (D) 8:30

33. Find the odd number in the series 63, 48, 34, 24, 15, 8, 3

- (A) 24 (B) 34
(C) 15 (D) 8

34. Arrange the following in a logical order:

- (a) Frog (b) Eagle
(c) Grasshopper (d) Snake
(e) Grass

Choose the correct answer from the option given below:

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

35. Which of the following collection of letter will look the same in the simple mirror?

- (A) HIMOSTA (B) HIMOVTA
(C) AOSVMTA (D) HVHRTAM

36. If 'book' is called 'watch', watch is called 'bag'; 'bag' is called 'dictionary' and 'dictionary' is called door: which is used to carry the books?

- (A) Watch (B) Bag
(C) Dictionary (D) Door

37. Find out the figure which will be exactly made up from the sum collection of symbols:



- (A) (B)
(C) (D)

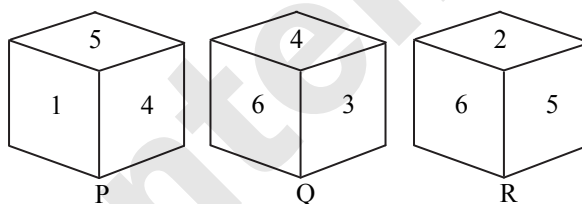
38. Match List-I with List-II.

List-I		List-II	
a.	Book	I.	Editor
b.	Film	II.	Dramatist
c.	Play	III.	Author
d.	Newspaper	IV.	Producer

Choose the correct answer from the options given below:

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

39. Three different positions P, Q and R of dice are shown in the figures given below.



Which number lies at the bottom face in position P?

- (A) 2 (B) 3
(C) 4 (D) 5

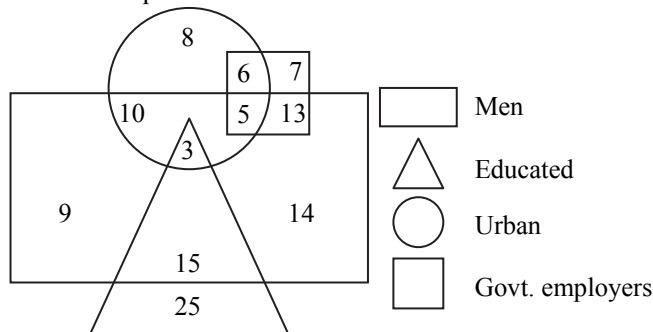
40. Which of the following diagrams correctly represents European countries. Arab countries and the countries that took part in the Gulf War?

- (A) (B)
(C) (D)

Direction for questions (41 – 43):

In the following diagram, rectangle represents men, triangle represents educated, circle represents urban and square represents government employees.

Answer the questions



41. Which of the following numbers represent Educated men who are not urban?

- (A) 14 (B) 3
(C) 15 (D) 25

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To see complete chapter buy **Target Notes**



Solutions

1. (C)
Prime Minister Narendra Modi has laid the foundation stone for Major Dhyan Chand Sports University in Meerut, Uttar Pradesh. This sports university is being established at an estimated cost of ₹700 crore at the Salawa and Kaili villages of the Sardhana town in Meerut. It will have the capacity of training 1,080 sportspersons, including 540 women and 540 men.

2. (C)

Sl.	List-I (Noble Prize winners)		List-II (Areas)	Year
a.	Abhijeet Banerjee	I.	Economics	2019
b.	Kailash Satyarthi	II.	Peace	2014
c.	C.V. Raman	III.	Physics	1930
d.	Rabindranath Tagore	IV.	Literature	1913

- Abhijeet Banerjee shared the 2019 Nobel Memorial Prize in Economic Science with Esther Duflo and Michael Kremer.
- Kailash Satyarthi and Yousafzai were jointly awarded the Noble Prize for Peace in recognition of their efforts on behalf of children's rights in 2014.
- C.V. Raman was awarded the 1930 Nobel Prize in Physics for his discovery of the Raman effect.
- Rabindranath Tagore won the Noble Prize for Literature in 1913 for his collection Gitanjali published in London in 1912.

3. (B)

Reverse Repo Rate is the rate the central bank of a country pays its commercial banks to park their excess funds in the central bank. It is the rate at which banks earn interest when they park surplus funds with the RBI. It helps to control inflation, and increases liquidity in the economy. The repo rate set by the RBI is always higher than the reverse repo.

4. (C)

Pingali Venkayya designed the National Flag of India. The design of the flag of India that was first presented in 1921 to Mahatma Gandhi, leader of the All-India Congress, was created by Pingali Venkayya. He was also as a lecturer, author, geologist, educationalist, agriculturist, and a polyglot.

5. (C)
Vedangas are six auxiliary disciplines associated with the study and understanding of the Vedas. These are Shiksha, Chhandas, Vyakarana, Nirukta, Kalpa and Jyotisha. The Vedangas are the last treatises of the Vedic Literature.

6. (B)

Sl.	List-I (Author)		List-II (Book)
a.	Smriti Zubin Irani	III.	Lal Salaam: A Novel
b.	Dr. Shankar Acharya	II.	An Economist at Home and abroad: A Personal Journey
c.	Syed Akbaruddin	I.	India vs UK; The story of an Unprecedented Diplomatic Win
d.	Brijinder Nath Goswamy	IV.	Conversations: India's Leading Art Historian Engages with 101 themes, and more

- Bollywood actress Smriti Zubin Irani has written the novel 'Lal Salaam'.
- Famous Economist and former Chief Economic Adviser to the Government of India, Dr Shankar Acharya has authored the book titled "An Economist at Home and Abroad: A Personal Journey".
- INDIA Vs UK: The Story of an Unprecedented Diplomatic Win is written by Syed Akbaruddin. Syed Akbaruddin is a retired Indian civil servant from 1985 batch of the Indian Foreign Service and served as India's permanent representative at the United Nations at New York from January 2016 to April 2020.
- Conversations: India's Leading Art Historian Engages with 101 themes and more is written by Brijinder Nath Goswamy. B.N. Goswamy is an Indian art critic, art historian and a former vice chairman of the Sarabhai Foundation of Ahmedabad, which runs the Calico Museum of Textiles, Goswamy is best known for his scholarship on Pahari painting and Indian miniature paintings.

7. (A)

Sl.	List-I (Author)		List-II (Book)
a.	United Nations World Tourism Organization	II.	Madrid, Spain
b.	UNESCO	I.	Paris, France



c.	World Trade Organization	IV.	Geneva, Switzerland
d.	IMF	III.	Washington, D.C.

- UNWTO Headquarters are based in Madrid, Spain since 1976.
- Headquarter of UNESCO is situated at the World Heritage Centre in Paris, France.
- The headquarter of WTO is situated in Geneva, Switzerland. The World Trade Organization is an intergovernmental organization that regulates and facilitates international trade.
- The World Bank and the IMF are both based in Washington, D.C., and work closely with each other.

8. (C)

Sl.	List-I (Author)		List-II (Book)
a.	World Lion Day	II.	10 August
b.	World Elephant Day	III.	12 August
c.	World Mosquito Day	IV.	20 August
d.	World Dog Day	I.	26 August

- To spread awareness about conservation of these animals, August 10 is celebrated as World Lion Day.
- Every year on August 12, World Elephant Day is observed with an aim to acknowledge Elephant's significance in our ecosystem.
- World Mosquito Day is observed on August 20 in order to honour Sir Ronald Ross who discovered the link between mosquitoes and the transmission of malaria in the year 1897.
- World Dog Day is celebrated on August 26 each year.

9. (C)

Yidan Prize Foundation is a global philanthropic education foundation, inspiring progress and change in education. Professor Eric. A Hanushek and Dr. Rukmini Banerji have been awarded the 2021 Yidan Prize for Education Development for improving learning outcomes in schools at scale.

10. (A)

The 79th Golden Globe Awards honoured the best in film and American television of 2021, as chosen by the Hollywood Foreign Press Association. The ceremony took place on January 9, 2022. Will Smith won the Best actor award of 'Golden Globe Award's 2022.

11. (C)

About 70.8% of the Earth's surface is water-covered. This is in various forms such as oceans, rivers, lakes, glaciers and ice sheets. The Ocean hold about 96.5% of all Earth's water.

12. (A)

PROM stands for Programmable Read Only Memory. It is a form of digital memory where the contents can be changed once after manufacture of the device. It can be modified once by a user. PROM is a way of allowing a user to tailor a microcode program using a special machine called a PROM programmer.

13. (C)

Nephron is the structural and functional unit of kidneys.

14. (A)

Speed of light is 3×10^8 m/s.

15. (D)

Messner and Habder is the first man to climb to Mount Everest without oxygen on May 8, 1978.

16. (C)

Farming always comprises land. So, land is the essential part of farming.

17. (D)

Let child's age = x years

As per the question,

$$2x = 48$$

$$x = 24 \text{ years}$$

$$\text{So, six years back, child's age} = 24 - 6 \\ = 18 \text{ years}$$

18. (D)

Antonyms of each other, so the correct word is as follows:

Abundant : Scarce :: Artificial : Genuine

19. (B)

Given that

$$G + 4 \qquad K$$

$$F + 4 \qquad J$$

$$E + 4 \qquad I$$

$$\text{So, ONM} \qquad \text{SRQ}$$

So, option B is correct option.

20. (B)

Synonyms of each other, so the correct word is as follows:

Contaminated : Sinful :: Immense : Gigantic

21. (B)

The town Kanpur is situated on the south bank of river Ganga. Similarly, the Narmada River rises from the Amarkantak Plateau in Anuppur district Madhya Pradesh.

22. (D)

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To see complete chapter buy **Target Notes**

CUET (UG) - 2023 Question Paper

1st June 2023

- Ram, Mohan and Sohan started a business with a total capital of ₹ 50000. Mohan invested ₹ 10000 less than Ram and ₹ 8000 more than Sohan. What is Mohan's share of profit in a total profit of ₹ 20000?
(A) ₹ 6400 (B) ₹ 3200
(C) ₹ 2800 (D) ₹ 7200
- "One Nation One FasTag Scheme" implemented in which year?
(A) 1 December 2020
(B) 1 December 2019
(C) 1 December 2021
(D) 1 December 2022
- Facing a man in the eye, Aman said, "Your son is my son's Uncle". How is the man related to Aman?
(A) Grand Father (B) Brother
(C) Father (D) Uncle
- When World Statistics Day is Celebrated?
(A) 13 December (B) 22 October
(C) 20 October (D) 09 December
- Which Blood Group in human is Universal Donor?
(A) A Group (B) AB Group
(C) O Group (D) B Group
- Match List-I with List-II

List-I (International Line)		List-II (Between Two Countries)	
(A)	Maginot Line	(i)	North Korea and South Korea
(B)	Durand Line	(ii)	France and Germany
(C)	38 th Parallel	(iii)	USA and Canada
(D)	49 th Parallel	(iv)	Pakistan and Afghanistan

Choose the most appropriate answer from the options given below:

- (A) A – (ii), B – (iv), C – (i), D – (iii)
(B) A – (ii), B – (iii), C – (iv), D – (i)
(C) A – (i), B – (iv), C – (iii), D – (ii)
(D) A – (i), B – (ii), C – (iv), D – (iii)

- Moon is also known as the
(A) Fossil Planet
(B) Red Planet

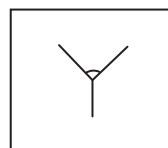
- (C) Blue Planet
(D) Evening Planet
- During the Revolt of 1857, who was the Loyal Commander of Nana Sahib from Kanpur?
(A) Liyaqat Ali (B) Amar Singh
(C) Bakht Khan (D) Tantiya Tope
 - A student has to obtain 33% of the total marks to pass an examination. He got 148 marks and failed by 50 marks. The maximum marks of the examination are
(A) 400 (B) 450
(C) 500 (D) 600
 - Shivani moved a distance of 45 meters towards the north. She then turned to the left and walking for about 15 meters, turned left again and walked 50 meters. Finally, she turned to the right at an angle of 45°. In which direction was she moving finally?
(A) North-West (B) South-West
(C) North-East (D) South
 - Match List-I with List-II

List-I (Book)		List-II (Authors)	
A.	Train to Pakistan	i.	Salman Rushdie
B.	Language of truth	ii.	APJ Abdul Kalam
C.	Righteous Life	iii.	Kushwant Singh
D.	It is always possible	iv.	Kiran Bedi

Choose the most appropriate answer from the options given below:

- (A) A-(i), B-(iii), C-(iv), D-(ii)
(B) A-(ii), B-(iv), C-(iii), D-(i)
(C) A-(iii), B-(i), C-(ii), D-(iv)
(D) A-(iii), B-(ii), C-(iv), D-(i)

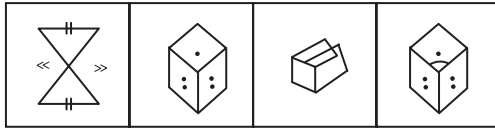
- In which one of the following, $pq = 3$?
(A) $2p : 3 = 1 : q$ (B) $2 : p = 3q : 1$
(C) $3 : p = q : 2$ (D) $3 : p = q : 1$
- Choose the alternative figure in which the problem figure is embedded :
Problem Figure



(X)



Answer Figure



(A) (B) (C) (D)

(A) A (B) B
(C) C (B) D

14. How many Indian States share their borders with Afghanistan?

(A) One (B) Two
(C) Three (D) Four

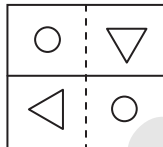
15. The sides of a triangle are in the ratio 8 : 9 : 10 and its perimeter is 270 cm. What is its area?

(A) $175\sqrt{17}$ cm² (B) $45\sqrt{231}$ cm²
(C) $225\sqrt{231}$ cm² (D) $375\sqrt{15}$ cm²

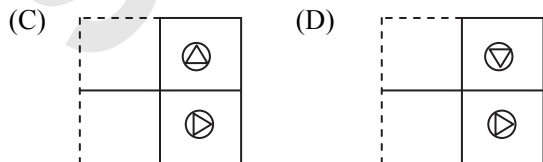
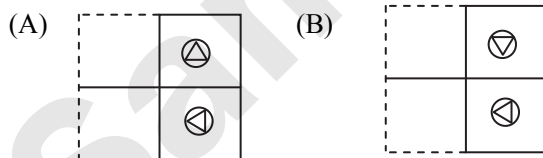
16. The simplified value of $\frac{\frac{1}{3} \div 2 + 10}{\frac{1}{3} \times 2 + 10}$ is:

(A) $\frac{61}{64}$ (B) $\frac{61}{24}$
(C) $\frac{1}{384}$ (D) $\frac{31}{24}$

17. Figure out from amongst the four alternatives as to how the pattern would appear when the transparent sheet is folded at the dotted line.



(X)



(A) A (B) B
(C) C (B) D

18. Which among the following is not a type of direct tax?

(A) Sales Tax (B) Property Tax
(C) Stamp Duties (D) Land Revenue

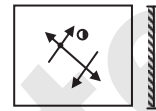
19. Select the pair in which the numbers are similarly related as in the given pair? 8 : 448 :: ?

(A) 9 : 729 (B) 7 : 1029
(C) 6 : 216 (D) 11 : 1210

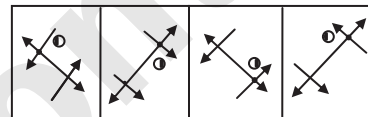
20. In a fort there was a food provision for 120 men for 200 days. After 5 days, 30 men moved to another place. How long will the remaining food last?

(A) 140 days (B) 260 days
(C) 300 days (D) 290 days

21. Choose the correct mirror-image the fig. (X) from amongst the four alternatives (A), (B), (C) and (D) given along with it.



(X)



(A) A (B) B
(C) C (D) D

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

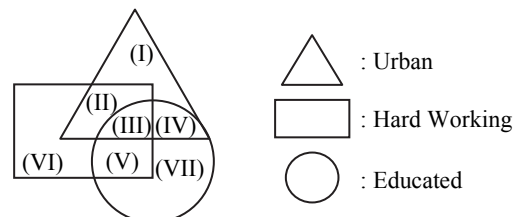
Assertion (A): Mercury is the second farthest planet from the Sun,

Reason (R): Mercury is the smallest planet in the entire solar system.

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.

23.



Which part shows urban educated who are not hard-working?

(A) II (B) I
(C) IV (D) V

Page no. **97** to **99** are purposely left blank.

To see complete chapter buy **Target Notes**



Solutions

1. (A)
Let ₹ x be invested by Mohan
 \therefore Ram invested = ₹ $(10000 + x)$
 \therefore Investment made by Sohan = ₹ $(x - 8000)$
Total capital invested = ₹ 50000
 $x + (10000 + x) + (x - 8000) = 50000$... (given)
 $\Rightarrow 3x = 48000 \Rightarrow x = 16000$
Ratio of Investment by Ram, Mohan and Sohan is
 $(10000 + 16000) : 16000 : 8000$
i.e., $26000 : 16000 : 8000 \Rightarrow 13 : 8 : 4$
 \therefore Ratio of investment is same as that of profit. So, profit share of Mohan
 $= \frac{8}{25} \times 20000 = ₹ 6400$

2. (B)
The “One Nation One FASTag” scheme was implemented in India on December 1, 2019.
This scheme aimed to promote digital payments and streamline toll collection on national highways by using a single electronic toll collection system called FASTag.

3. (C)
The son of the man is the uncle of Aman’s son.
So, the Man’s son is the brother of Aman and that man is the father of Aman.

4. (C)
World Statistics Day is celebrated every five years on October 20th.
The first World Statistics Day was celebrated on October 20, 2010 and subsequent celebrations have taken place every five years since then.

5. (C)
Blood Group O is universal donor

6. (A)
Here’s the correct match between List – I and List – II.

List - I (International Line)		List-II (Between Two Countries)	
A.	Magint Line	i.	France and Germany
B.	Durand Line	iv.	Pakistan and Afghanistan

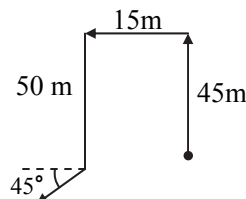
C.	38 th Parallel	i.	North Korea and South Korea
D.	49 th Parallel	iii.	USA and Canada

7. (A)
The Moon is classified as a “fossil planet” due to its lack of a substantial atmosphere.
This indicates that there is no change in weather, because without weather, nothing can be eroded or washed away.

8. (D)
During the Revolt of 1857, the loyal commander of Nana Sahib from Kanpur was Tantia Topo (also spelled Taty Topo).
He was one of the key lieutenants of Nana sahib and was entrusted with leading the rebel forces in various battles, including those in and around Kanpur.

9. (D)
Given that, 33 % of maximum marks
 $= 148 + 50$
 \Rightarrow Maximum marks $= \frac{198}{33} \times 100 = 600$

10. (B)
According to given condition,



- \therefore Shivani is moving in south - west direction.

11. (C)
Here’s the correct match between List-I and List-II.

List-I (Book)		List-II (Authors)	
A.	Train to Pakistan	iii.	Kushwant Singh
B.	Language of truth	i.	Salman Rushdie
C.	Righteous Life	ii.	APJ Abdul Kalam
D.	It is always possible	iv.	Kiran Bedi

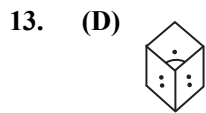
12. (D)
Consider options,
(A) $2p : 3 = 1 : q \Rightarrow \frac{2p}{3} = \frac{1}{q} \Rightarrow pq = \frac{3}{2}$
(B) $2 : p = 3q : 1 \Rightarrow \frac{2}{p} = \frac{3q}{1} \Rightarrow pq = \frac{2}{3}$



(C) $3 : p = q : 2 \Rightarrow \frac{3}{p} = \frac{q}{2} \Rightarrow pq = 6$

(D) $3 : p = q : 1 \Rightarrow \frac{3}{p} = \frac{q}{1} \Rightarrow pq = 3$

So, (d) is correct.

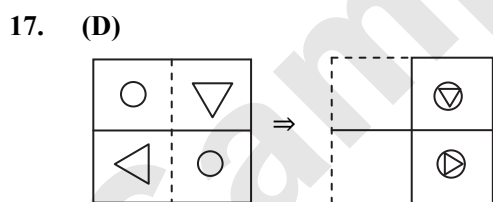


14. (A) Jammu and Kashmir (PoK) is the only state/union territory in India that shares a boundary with neighbouring country Afghanistan.

15. (C) Ratio of sides = 8 : 9 : 10
 \Rightarrow Sides are $8x$, $9x$ and $10x$
 \therefore Perimeter = 270 cm(given)
 $\Rightarrow 8x + 9x + 10x = 270$
 $\Rightarrow x = 10$
 $S = \frac{270}{2} = 135$

\therefore Area of triangle
 $= \sqrt{S(S-a)(S-b)(S-c)}$
 $= \sqrt{135(135-80)(135-90)(135-100)}$
 $= \sqrt{135(55)(45)(35)}$
 $= 225\sqrt{231} \text{ cm}^2$

16. (A) $\frac{\frac{1}{3} \div 2 + 10}{\frac{1}{3} \times 2 + 10} = \frac{\frac{1}{6} + 10}{\frac{2}{3} + 10} = \frac{\frac{61}{6}}{\frac{32}{3}} = \frac{61}{64}$



18. (A) Among the options provided, "Sales Tax" is not a type of direct tax. Sales tax is a type of indirect tax that is levied on the sale of goods and services.

19. (D) As, $8 : 448 \Rightarrow 8 : 8^3 - 8^2$
 Similarly, $11 : 11^3 - 11^2 \Rightarrow 11 : (1331 - 121)$
 $\Rightarrow 11 : 1210$

20. (B) Total provision = $120 \times 200 = 24000$
 Food consumption by 120 men in 5 days = 600

\therefore Remaining provision = $24000 - 600 = 23400$

Remaining number of men
 $= 120 - 30 = 90$
 $= 90$ men

\therefore Food will last for $= \frac{23400}{90} = 260$ days more.

21. (D)

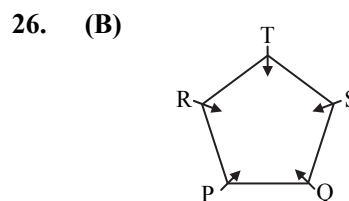
22. (D) The second farthest planet in the solar system from the sun is Uranus not Mercury and Mercury is the smallest and inner planet in the entire solar system.

23. (C) The required part is the region which is common to \triangle and \bigcirc but does not lie in \square

\therefore Required part is IV.

24. (C) The Big Bang Theory regarding the origin of the universe was formulated by Belgian astronomer and priest Georges Lemaître. The term "Big Bang" was coined later by British astronomer Fred Hoyle.

25. (D) Using, Amount = $P + SI$
 $2P = P + SI$
 $\therefore SI = P$
 Now, $SI = \frac{P \times N \times R}{100}$
 $P = \frac{P \times 5 \times R}{100}$
 $\Rightarrow R = 20\%$



Thus, Q is to the right of P.

27. (C) 1 hr 10 min = $60 + 10 = 70$ min.
 Angular distance covered by minute hand = $\left(\frac{70}{60} \times 360^\circ\right) = 420^\circ$

28. (A) Sum of digits of elements in (273, 365, 367) are 12, 14 and 16. Also, sum of digits of elements in (246, 257, 358) are 12, 14 & 16.
 \therefore Option (a) is correct.



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