



Class – VII

School Accelerated Program

ENTRANCE TEST CUM SCHOLARSHIP TEST (Sample Paper-2)

[Time: 1 Hour 50 Min]

[Max Marks: 400]

A. General:

1. This booklet is a Question Paper containing 100 questions.
2. **Blank Papers, Clipboards, Log Tables, slide rules, calculators, cellular phones, pagers and electronic gadgets** in any form are not allowed to be carried inside the examination hall.
3. The answer sheet, a machine-readable optical mark recognition sheet (OMR Sheet), is provided separately.
4. **DO NOT TAMPER WITH THE OMR OR THE BOOKLET.**
5. Please fill your roll number correctly in the OMR sheet (answer sheet).
6. Both Question Paper and OMR Answer Sheet will be submitted after completion of this examination.

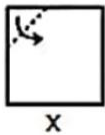
B. Question Paper Format and marking scheme:

1. The Question Paper consists of five parts (Part I: MAT, Part II: Physics, Part III: Chemistry, Part IV: Biology, Part V: Mathematics).
2. Each Question carries +4 marks for correct answer and -1 mark for incorrect answer.

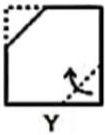
MAT

Direction (Q. 1 to 3) In each of the following questions, a number series is given with one term missing. Choose the correct alternative that will continue the same pattern and replace the question mark in the given series.

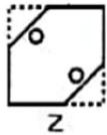
1. 10, 9, 17, -10, 54, ?
 (a) -82 (b) -71 (c) -67 (d) -103.
2. 169, 319, 519, 769, 1069, ?
 (a) 1401 (b) 1391 (c) 1411 (d) 1419
3. 141, 145, 118, 134, ?, 45
 (a) 9 (b) 81 (c) 63 (d) 36.
4. If GOLD is coded as HOME, COME is coded as DONE and CORD is coded as DOSE, how would you code SONS?
 (a) TPOT (b) TOOT (c) TOOS (d) TONT
5. In a certain code 'LIMCA' is written as 'HJLDZ'. Which of the following words is written as 'IFWJBP'?
 (a) MEXICO (b) MERCURY (c) JAPAN (d) MIDNIGHT
6. Choose a figure which would most closely resemble the unfolded form of Figure (Z).



X



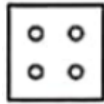
Y



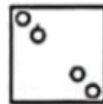
Z



(a)



(b)

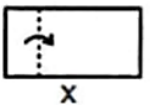


(c)

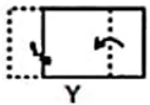


(d)

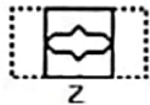
7. Choose a figure which would most closely resemble the unfolded form of Figure (Z).



X



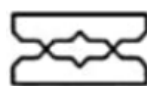
Y



Z



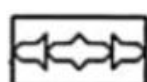
(a)



(b)



(c)



(d)

Direction (Q. 8 and 9) In each of the following questions, choose the correct mirror-image of the Fig. (X) from amongst the four alternatives (a), (b), (c) and (d) given along with it.



(X)

8.



(a)



(b)



(c)

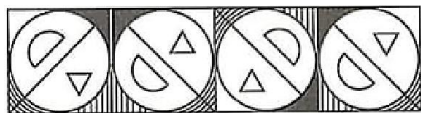


(d)

9.



(X)



(a)

(b)

(c)

(d)

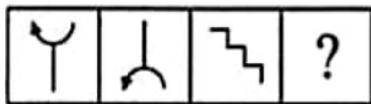
(a) a

(b) b

(c) c

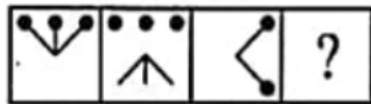
(d) d

10. Select a suitable figure from the Answer Figures that would replace the question mark (?).



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

11. Select a suitable figure from the Answer Figures that would replace the question mark (?).



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

12. Choose the correct water image of the question figure, from the given answer figures (assume that water is along XY)



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

13. Choose the correct water image of the question figure, from the given answer figures (assume that water is along XY)



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

14. A man pointing to a photograph says, "The lady in the photograph is my nephew's maternal grandmother." How is the lady in the photograph related to the man's sister who has no other sister?

- (a) Cousin (b) Sister-in-law
(c) Mother (d) Mother-in-law

15. Q is the brother of R ; P is the sister of Q ; T is the brother of S ; S is the daughter of R . Who are the nephew/ neice of Q ?

- (a) R and P (b) P and T (c) Q and T (d) S and T

16. If $A + B$ means A is the mother of B ; $A - B$ means A is the brother B ; $A \% B$ means A is the father of B and $A \times B$ means A is the sister of B , which of the following shows that P is the maternal uncle of Q ?

- (a) $Q - N + M \times P$ (b) $P + S \times N - Q$
(c) $P - M + N \times Q$ (d) $Q - S \% P$

17. In the given question there are two statements followed by two conclusions numbers I & II. You have to take the given two statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.

Statements:

All pens are roads. All roads are houses.

Conclusions:

I. All houses are pens.

II. Some houses are pens.

(a) Only I is true

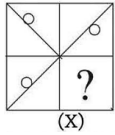
(b) Only II is true

(c) Both are true

(d) Both are false

DIRECTIONS (Qs. 18-19) : In each of the following questions, select a figure from the four alternatives, which when placed in the space where the question mark is shown in figure (X) would complete the figure.

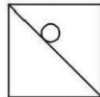
18



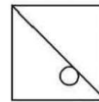
(a)



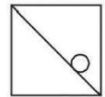
(b)



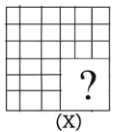
(c)



(d)



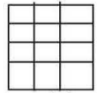
19.



(a)



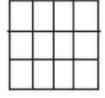
(b)



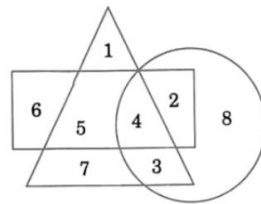
(c)



(d)



20. Which number is in all the geometrical figures?



(a) 3

(b) 4

(c) 5

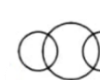
(d) 8

21. Which of the following diagrams correctly represents the relationship among Tennis fans, Cricket players and students.

(a)



(b)



(c)



(d)



22. Danish starts walking straight towards East. After walking 75 m , he turns to the left and walks 25 m straight. Again he turns to the left, walks a distance of 40 m straight again he turns to the left and walks a distance of 25 m. How far is he from starting point

(a) 30 m

(b) 35 m

(c) 40 m

(d) 50 m

23. In a row of boys facing the North, A is sixteenth from the left end and C is sixteenth from the right end. B , who is fourth to the right of A , is fifth to the left of C in the row. How many boys are there in the row ?

(a) 39

(b) 40

(c) 41

(d) 42

24. Ram and Sham are ranked 13th and 14th respectively in a class of 23. What are their ranks from the last respectively?

(a) 10th; 11th

(b) 11th; 12th

(c) 11th ; 10th

(d) None of these

25. How many 5 s are there in the following sequence which are immediately followed by 3 but not immediately preceded by 7 ?

8 9 5 3 2 5 3 8 5 5 6 8 7 3 3 5 7 7 5 3 6 5 3 3 5 7 3 8

(a) One

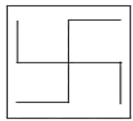
(b) Two

(c) Three

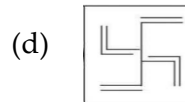
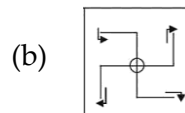
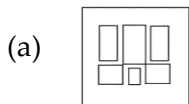
(d) Four

DIRECTIONS (Qs. 26-27) : In each of the following questions, four terms/words have been given, out of which three are alike in some manner and one is different. Choose the odd one out.

26. (a) Broad: Wide (b) Light:Heavy
(c) Tiny: Small (d) Big : Large
27. (a) VWY (b) QRT (c) LMO (d) JKL
28. If the first three letters of the word COMPREHENSION are reversed, then the last three letters are added and then the remaining letters are reversed and added, then which letter will be exactly in the middle. ?
(a) H (b) N (c) R (d) S
29. Arrange the given words in alphabetical order and choose the one that comes in the 2nd position.
(a) Restrict (b) Rocket (c) Robber (d) Random
30. In the following question, you are given a figure (X) followed by four alternative figures (a), (b), (c) and (d) such that fig. (X) is embeded in one of them. Trace out the alternative figure which contains fig. (X) as its part.



(x)



PHYSICS

31. Statement 1: The battery is combination of cell
Statement 2: The small and dark line in the symbol of cell is positive terminal.
(a) Both statement correct (b) Both statement incorrect
(c) Statement 1 correct; Statement 2 incorrect (d) Statement 1 incorrect; statement 2 correct
32. Which of the following is not a circuit element?
(a) Battery (b) Potential Difference (c) Voltmeter (d) Resistor
33. What is difference between ammeter and voltmeter?
(a) Ammeter measures current while voltmeter measures voltage
(b) Ammeter measures voltage while voltmeter measures current
(c) Ammeter measures time while voltmeter measures voltage
(d) Ammeter measures distance while voltmeter measures current
34. When current is passed through a conductor, the heat produced in it depends upon:
(i) The material of conductor
(ii) The current flowing through the conductor
(iii) The time for which the current flows
(a) i and ii only (b) i and iii only (c) ii and iii only (d) All i ,ii and iii
35. Copper wire are used as connecting wires because _____.
(a) Copper has very high melting point (b) Copper has very thick wires
(c) Copper offers a lower resistance (d) None
36. Identify the element used in filament of electric bulb
(a) Tungsten (b) Copper (c) Aluminium (d) Silver

37. Observe figure:

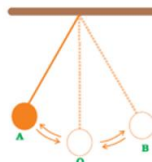


Fig.

The time period of a simple pendulum is the time taken by it to travel from

- (a) A to B and back to A. (b) O to A, A to B and B to A.
(c) B to A, A to B and B to O. (d) A to B .

38. Fig. shows an oscillating pendulum

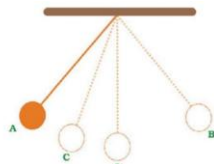
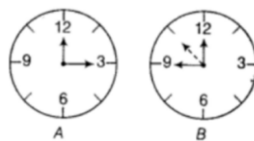


Fig.

The time taken by the bob to move from A to C is t_1 , and from C to O is t_2 . The time period of this simple pendulum is.

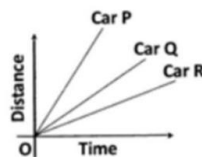
- (a) $t_1 + t_2$ (b) $2(t_1 + t_2)$ (c) $3(t_1 + t_2)$ (d) $4(t_1 + t_2)$

39. Two clocks A and B are shown in figure. Clock A has an hour and a minute hand whereas clock B has an hour hand, minute hand as well as a second hand. Which of the following statement is correct for these clocks?



- (a) A time interval of 30 seconds can be measured by clock A
(b) A time interval of 30 seconds cannot be measured by clock B
(c) Time interval of 5 minutes can be measured by both A and B
(d) Time interval of 4 minutes 10 seconds can be measured by clock A

40. P, Q and R are three cars in a race competition. Which of the three cars win the race?



- (a) P (b) Q (c) R (d) Cannot be determine

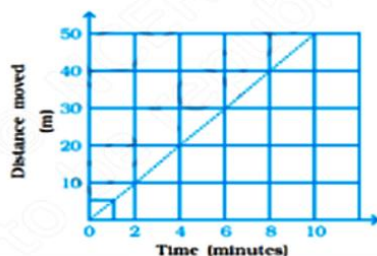
41. Two students were asked to plot a distance-time graph for the motion described in Table A and Table B. The graph given in figure is true for:-

Table A

Distance moved (m)	0	10	20	30	40	50
Time (minutes)	0	2	4	6	8	10

Table B

Distance moved (m)	0	5	10	15	20	25
Time (minutes)	0	1	2	3	4	5



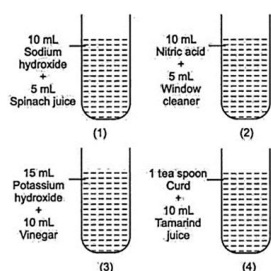
- (a) Both A and B. (b) A only. (c) B only. (d) Neither A nor B
42. The ratio of the unit of acceleration and velocity gives the unit of the physical quantity _____
 (a) Time (b) Frequency (c) Amplitude (d) Speed
43. What is the shortest day in the Northern Hemisphere called?
 (a) Summer solstice (b) Equinox (c) Winter solstice (d) Lunar eclipse
44. How many hours of daylight occur at the equator year-round?
 (a) 10 hours (b) 14 hours (c) 12 hours (d) Varies greatly
45. What is the path Earth follows around the Sun called?
 (a) Axis (b) Orbit (c) Trail (d) Curve

CHEMISTRY

46. Consider the following statements (I-IV) and fill in the blanks by choosing the appropriate option.
- I. An antacid such as P is used to cure indigestion.
- II. Lime water contains Q, which turns milky with carbon dioxide.
- III. Soap solution is basic due to presence of R. It turns turmeric stain of shirt to red.
- IV. Baking soda is S which reacts with vinegar to evolve carbon dioxide gas.

	P	Q	R	S
(a)	Milk of magnesia	Calcium hydroxide	Sodium hydroxide	Sodium hydrogen carbonate
(b)	Calcium hydroxide	Milk of Magnesia	Sodium hydroxide	Sodium Hydrogen Carbonate
(c)	Sodium hydroxide	Sodium hydrogen carbonate	Calcium hydroxide	Milk of magnesia
(d)	Sodium hydrogen carbonate	Calcium hydroxide	Milk of magnesia	Sodium Hydroxide

47. A science teacher has arranged the following sets of test tubes as



She asked the students to find out the incorrect statement about the above experimental set-up.

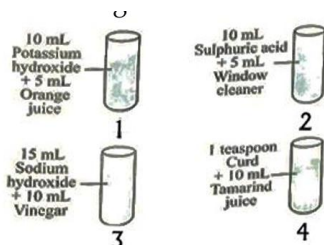
- (a) Turmeric solution turns red in test tubes 1 and 3
 (b) China rose indicator turns green in test tubes 2 and 4.
 (c) Red litmus turns blue in test tubes 1 and 3
 (d) Turmeric remains colourless in test tubes 2 and 4.
48. Calamine solution is applied on the area of ant bite. Calamine solution contains
 (a) Sodium carbonate (b) Sodium Hydrogen carbonate
 (c) Zinc carbonate (d) Sodium chloride.

49. A boy was given two test tubes, one containing water and another containing sodium hydroxide. To identify the solutions which of the following indicators can be used by him?

- (i) Blue litmus (ii) Turmeric indicator (iii) Phenolphthalein (iv) Red litmus
 (a) (i) and (iv) (b) (ii), (iii) and (iv) (c) only (iv) (d) only (iii)

50. A class 7 science teacher arranged the following set of test tubes.

Which of the following observations is correct when these solutions were tested with different indicators?



- (a) In test tubes 1 and 3, turmeric solution remains yellow.
 (b) In test tubes 2 and 4, China rose indicator turns magenta.
 (c) Methyl orange turns red in test tubes 1 and 3.
 (d) Phenolphthalein turns pink in test tubes 2 and 4

51. A milkman added a small pinch of baking soda to fresh milk which had pH close to 6. As a result, pH of the medium

- (a) Became close to 2 (b) Became close to 4
 (c) Did not undergo any change (d) Became close to 8

52. When CO_2 is passed through lime water, it turns milky. Identify the cause for the milkiness.

- (a) Formation of CaCO_3 (b) Formation of Ca(OH)_2
 (c) Formation of H_2O (d) Formation of H_2

53. Match column I with column II and select the correct option from the codes given below.

Column I		Column II	
(P)	Expansion of metals on heating	(i)	Neither physical nor chemical change
(Q)	A stone kept in the sunlight	(ii)	Chemical change
(R)	Burning of a candle	(iii)	Combination of physical and chemical changes
(S)	Curdling of milk	(iv)	Physical change

- (a) (P) - (iv), (Q) - (i), (R) - (iii), (S) - (ii) (b) (P) - (iv), (Q) - (iii), (R) - (ii), (S) - (i)
 (c) (P) - (i), (Q) - (ii), (R) - (iii), (S) - (iv) (d) (P) - (i), (Q) - (iv), (R) - (ii), (S) - (iii)

54. Kunal took few iron turnings and mixed them well with sulphur powder. He could separate the iron turnings with the help of a magnet. He heated the mixture for some time and tried to separate the iron turnings with the magnet but he could not. Why?

- (a) On heating, a chemical change takes place and a new compound is formed.
 (b) On heating, iron becomes non-magnetic hence, it is not attracted by magnet.
 (c) On heating, a physical change takes place hence iron and sulphur gets mixed up.
 (d) On heating, iron evaporates and only sulphur is left behind.

55. Which of the following is/are true when milk changes into curd?

- (i) Its state is changed from liquid to semi solid.
 (ii) It changes colour.
 (iii) It changes taste.
 (iv) The change cannot be reversed.

Choose the correct option from below :

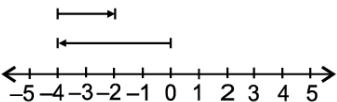
- (a) (i) and (ii) are correct (b) (ii) and (iii) are correct
(c) (i), (iii) and (iv) are correct (d) (i) to (iv) are correct
56. Two drops of dilute sulphuric acid were added to 1 g of copper sulphate powder and then small amount of hot water was added to dissolve it (step I). On cooling, beautiful blue colored crystals got separated (step II). Step I and step II are:
(a) Physical and chemical changes respectively.
(b) Chemical and physical changes respectively
(c) Both physical change
(d) Both chemical change.
57. Nidhi took two China dishes and marked them as I and II. In China dish I, she mixed iron filings and sulphur powder. In China dish II, she mixed iron filings and sulphur powder and then heated it for few minutes. What were her observations in both the dishes?
(a) In China dish I, a mixture is formed, where iron filings and sulphur powder can be seen separately
(b) In China dish II, a compound is formed, which is heterogenous.
(c) A colorless and odourless gas was produced in China dish II
(d) All the above observations are correct.
58. The element, compound and mixture in the given list is: cobalt, ink, milk, marble, ozone.
(a) Cobalt is an element, milk and ink are mixtures, ozone and marble are compounds
(b) Cobalt is an element, milk and marble are mixtures, ozone and ink are compounds
(c) Cobalt and ozone are elements, milk and ink are mixtures, and marble is a compound
(d) Cobalt is an element, milk is a mixture, ink, ozone and marble are compounds
59. What is the Latin name of Potassium?
(a) Kalium (b) Natrium (c) Stannum (d) Hydrargyrum
60. What is the condition for something to be called matter?
(a) It should has mass (b) It should occupy some space
(c) It should have both mass and volume (d) It should have mass or volume

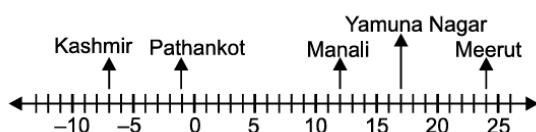
BIOLOGY

61. What is the process called when plants produce their own food using sunlight?
(a) Respiration (b) Photosynthesis (c) Transpiration (d) Excretion
62. Which part of the plant transports water and minerals from the roots to the leaves?
(a) Xylem (b) Phloem (c) Cambium (d) Cortex
63. What is the main byproduct of photosynthesis?
(a) Oxygen (b) Carbon dioxide (c) Water (d) Starch
64. Which of the following is the primary site for photosynthesis in plants?
(a) Roots (b) Stems (c) Leaves (d) Flowers
65. The green pigment in the leaves is _____.
(a) Chlorophyll (b) Hemoglobin (c) Protoplast (d) Haemocyanin
66. Which of the following is the most common respiratory substrate?
(a) Vitamins (b) Fats (c) Glucose (d) Proteins
67. Which gas is absorbed by plants during photosynthesis?
(a) Oxygen (b) Carbon dioxide (c) Nitrogen (d) Hydrogen
68. What is produced during photosynthesis and stored as starch?
(a) Oxygen (b) Glucose (c) Protein (d) Fiber

69. Greater number of stomata are found in _____.
 (a) Upper surface of leaves (b) Lower surface of leaves
 (c) Stems (d) Roots
70. Which of the following is a characteristic of parasitic plants?
 (a) They have roots that anchor them firmly in the soil.
 (b) They contain chlorophyll and can produce their own food.
 (c) They have specialized structures called haustoria to absorb nutrients from the host.
 (d) They are completely independent of other plants for survival.
71. What type of nutrition is characterized by the ability to produce their own food?
 (a) Heterotrophic (b) Saprophytic (c) Autotrophic (d) Parasitic
72. Raw banana has a bitter taste, while ripe banana has sweet taste. It happens because of conversion of _____.
 (a) Starch to sugar (b) Sucrose to starch
 (c) Amino acids to sugars (d) Amino acids to proteins
73. What is the principal source of energy input to biological systems?
 (a) Carbohydrates from plants. (b) Light from the sun.
 (c) Nutrients from the soil. (d) Oxygen from the air.
74. Which of the following is an example of an organism that exhibits saprotrophic nutrition?
 (a) A green plant (b) A mushroom (c) A tapeworm (d) A cactus
75. Plant that lives on or inside another living organism and gets its food from it is called a _____.
 (a) Saprophyte (b) Autotroph (c) Parasite (d) Symbiont

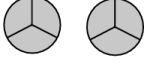
MATHEMATICS

76. Evaluate : $\frac{(-16) \div [(-13) + (-3)]}{(-60) \div (-60)}$
 (a) 2 (b) -1 (c) 1 (d) -2
77. Which of the following number sentences best describes the problem shown on the number line?
- 
- (a) $-2 + (-4)$ (b) $-5 + 3$ (c) $5 + (-3)$ (d) $-4 + 2$
78. Which pair of numbers does not have a product equal to 36?
 (a) $\{-4, -9\}$ (b) $\{-3, -12\}$ (c) $\{-1, -72\}$ (d) $\{1, 36\}$
79. Maya goes 35 km east from a point A to point B. From B, she moves 30 km west along the same road. If the distance travelled in the west direction is represented by a negative integer, how will you represent the distance travelled in the east? By which integer will you represent her final position from A?
 (a) Positive integer, 5 km (b) Negative integer, 3 km
 (c) Positive integer, 2 km (d) Negative integer, 8 km
80. The following number line shows the temperature in degree Celsius ($^{\circ}\text{C}$) at different places on a particular day. Find P, Q and R.



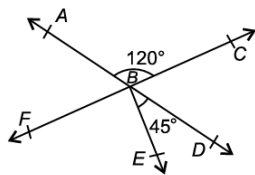
- (i) The temperature difference between the hottest and the coldest places is P.
 (ii) The temperature difference between Yamuna Nagar and Pathankot is Q.
 (iii) The temperature difference between Pathankot and Kashmir is R.

	P	Q	R
(A)	31°C	8°C	5°C
(B)	30°C	18°C	6°C
(C)	31°C	18°C	6°C
(D)	30°C	7°C	8°C

81. The value of $\left(1 - \frac{1}{2}\right)\left(1 - \frac{1}{3}\right)\left(1 - \frac{1}{4}\right) \dots \left(1 - \frac{1}{10}\right) =$ _____.
- (a) $\frac{10}{11}$ (b) $\frac{1}{9}$ (c) $\frac{1}{10}$ (d) $\frac{1}{2}$
82. If we multiply a fraction by itself, the fraction thus obtained is $\frac{16}{81}$. The original fraction is _____.
- (a) $\frac{8}{27}$ (b) $2\frac{2}{3}$ (c) $1\frac{1}{3}$ (d) $\frac{4}{9}$
83. If the LCM of three numbers is 9570, then their HCF is _____.
- (a) 11 (b) 12 (c) 19 (d) 21
84. Pictorial representation of $3 \times \frac{2}{3}$ is:
- (a)  (b)  (c)  (d) 
85. Simplify : $\frac{(0.2 \times 0.2 + 0.01)}{(0.1 \times 0.1 + 0.02)}$
- (a) $\frac{5}{3}$ (b) $\frac{41}{12}$
(c) $\frac{41}{4}$ (d) $\frac{9}{5}$
86. $54.327 \times 357.2 \times 0.0057$ is the same as
- (a) $5.4327 \times 3.572 \times 5.7$ (b) $5.4327 \times 3.572 \times 0.57$
(c) $54327 \times 3572 \times 0.0000057$ (d) $5432.7 \times 3.572 \times 0.000057$
87. Sneha and Sidak have ₹ 41 altogether. $\frac{1}{4}$ of Sneha's money is ₹ 2 more than $\frac{1}{7}$ of Sidak's money. How much money Sneha has?
- (a) ₹ 27.5 (b) ₹ 20 (c) ₹ 30.50 (d) ₹ 29
88. In how many parts can a rod of length 19.5 m be broken into equal lengths of 65 m?
- (a) 20 (b) 30 (c) 3 (d) 130
89. Which of the following statements is CORRECT?
- (a) The products of fractions are expressed as $\frac{\text{Product of the numerators}}{\text{Product of the denominators}}$
(b) The product of two proper fractions is greater than the individual fractions involved in the operation.
(c) The product of a proper and an improper fraction is less than the proper fraction.
(d) When a decimal number is to be divided by 10, 100 or 1000, the decimal in the decimal number is shifted to the right.
90. Mohit and Rohit go for shopping to a mall. They bought a pair of jeans and 2 shirts.
- | | Store P | Store Q | Store R |
|-------------------|---------|---------|---------|
| One pair of Jeans | ₹399.70 | ₹449.90 | ₹499.50 |
| One Shirt | ₹222.40 | ₹224.80 | ₹204.60 |
- (a) At which store should Mohit and Rohit shop to spend the least amount of money?
(b) Mohit and Rohit bought a pair of jeans from store R, 1 shirt from store P and another shirt from store Q. If they had ₹ 1000, how much will be left?

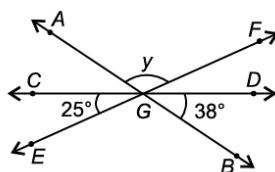
- | | (a) | (b) |
|-----|-----|--------|
| (A) | S | ₹52 |
| (B) | P | ₹53.30 |
| (C) | Q | ₹53.30 |
| (D) | Q | ₹65.50 |

91. In the figure, AD and CF are straight lines. Find $\angle EBF$.



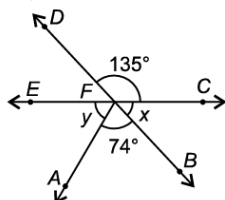
- (a) 70° (b) 120° (c) 75° (d) 95°

92. In the figure, (not drawn to scale), AGB , CGD and EGF are straight lines. Find $\angle y$



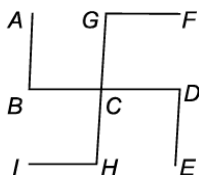
- (a) 97° (b) 127° (c) 100° (d) 117°

93. In the figure, (not drawn to scale), EFC and DFB are straight lines. Find $\angle x$ and $\angle y$ respectively.



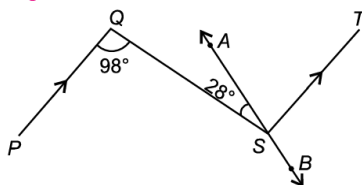
- (a) $40^\circ, 62^\circ$ (b) $45^\circ, 61^\circ$ (c) $47^\circ, 54^\circ$ (d) $40^\circ, 60^\circ$

94. In the given figure, $AB \parallel GH \parallel DE$, $GF \parallel BD \parallel HI$ and $\angle FGC = 80^\circ$. Find the value of $\angle CHI$.



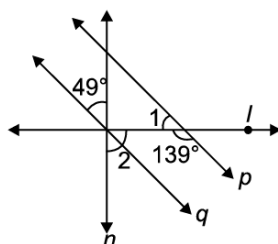
- (a) 80° (b) 120° (c) 100° (d) 160°

95. In the figure, PQ is parallel to ST . AB is a straight line. Find $\angle BST$.



- (a) 110° (b) 125° (c) 152° (d) 98°

96. If $p \parallel q$, then find the value of $\angle 1$, $\angle 2$ and $\angle 1 + \angle 2$ respectively.



- (a) $41^\circ, 90^\circ, 131^\circ$ (b) $42^\circ, 89^\circ, 131^\circ$ (c) $90^\circ, 41^\circ, 131^\circ$ (d) $49^\circ, 41^\circ, 90^\circ$

97. Fill in the blanks.

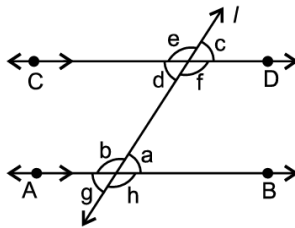
- (i) A **P** has two end points.
 (ii) A line has **Q** end points on either side.
 (iii) A **R** is a line that intersects two or more lines at distinct points.
 (iv) An **S** is formed when two rays meet.

	P	Q	R	S
(A)	Line	Two	Ray	Angle
(B)	Line Segment	No	Transversal	Angle
(C)	Ray	No	Transversal	Line
(D)	Line	Two	Transversal	Angle segment

98. Which of the following options holds?

Statement-1: $\angle e$ and $\angle h$ are supplementary angles.

Statement -2: $\angle c + \angle d + \angle h + \angle b = 360^\circ$



- (a) Both Statement-1 and Statement-2 are true. (b) Statement- 1 is true but Statement- 2 is false.
 (c) Statement-1 is false but Statement-2 is true. (d) Both Statement-1 and Statement-2 are false.

99. How many lakhs make a billion?

- (a) 100 (b) 1000 (c) 10000 (d) 100000

100. What is the place value of the digit ' 5 ' in the number 3,578,901 ?

- (a) 500000 (b) 50000 (c) 5000 (d) 500