

ELITE 20

PRE- FOUNDATION COURSE CLASS – VIII

SAMPLE PAPER

PLEASE READ THE INSTRUCTIONS CAREFULLY

A. GENERAL

1. This booklet is your question paper.
2. This question paper contains **25** questions.
3. This question paper contains blank pages for your rough work.
4. Blank papers, clip boards, log tables, slide rule, calculators, cellular phones or any other electronic items, in any form are NOT allowed.
5. Write your Roll Number and Name on Question Paper and before answering the Question paper fill up the required details in the blank space provided in the Answer sheet.

B. ANSWERING

1. Every question has 4 choices for its answer (1), (2), (3) and (4).
2. Only one of them is the right answer.

C. MARKING SCHEME

1. For each correct answer carries **3** marks. There will be **negative marking**. For each wrong answer **-0.5** mark will be deducted.

JRS TUTORIALS

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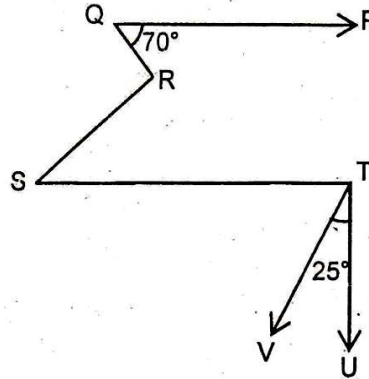
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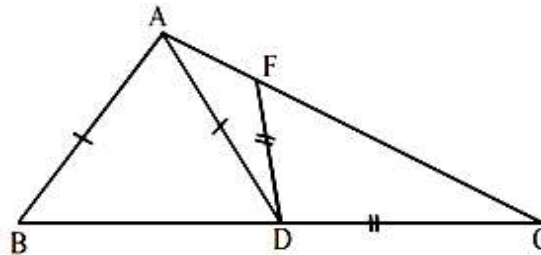


1. The average marks of P, Q and R in a certain test are 71. The average marks of P and Q are 66. The average marks of Q and R are 74. The average marks of P and R are
1. 70 2. 71 3. 72 4. 73
2. Given, $a + b + c + d = 138$, $a + b + c + e = 140$, $a + b + d + e = 144$, $a + c + d + e = 150$ and $b + c + d + e = 152$. Find the value of c.
1. 43 2. 41 3. 37 4. 31

3. In the given figure, $PQ \parallel ST$, $TV \parallel RS$ and $TU \perp ST$. Find $\angle QRS$.



1. 45° 2. 95° 3. 135° 4. 140°
4. In a $\triangle ABC$, D is a point on BC such that $AB = AD$. F is a point on AC such that $DF = DC$ as shown in the figure below, if $\angle ABC - \angle DAC = 36^\circ$, then the measure of the $\angle FDC$ is



1. 108° 2. 72° 3. 90° 4. 120°
5. Which of the following is NOT a possible number of regions into which three straight lines (of infinite extent) can divide a plane?
1. 5 2. 6 3. 7 4. 4
6. There are two positive integer if, one of the integer is 'k' more than twice another, and the sum of the two numbers is 28, then out of the following how many of the following can be value of k?

I-2, II-3, III-4, IV-5, V-6, VI-7

1. 0 2. 1 3. 2 4. 3
7. P is a group of four numbers 1, 2, 3 and 4. In every step, 1 is added to any two numbers in group P. In how many minimum steps is it possible to make all the four numbers in group P equal?
1. 3 2. 5 3. 7 4. Not possible



8. In $\triangle ABC$, $\frac{\angle A}{6} + \frac{\angle B}{6} + \frac{\angle C}{4} = 35^\circ$, then the value of $\angle C$ is:
1. 45° 2. 60° 3. 90° 4. 30°
9. Which of the following equations give the least value of solution?
1. $3(x-1) + \frac{1}{2}(x-3) = 0$ 2. $\frac{2x-3}{3} - \frac{x-2}{6} = 0$
3. $2(3x-4) - 3(5x-4) = 0$ 4. $\frac{2}{3}(3x-1) + \frac{x-2}{2} = 0$
10. There are two positive integers, X and Y with $X > Y$.

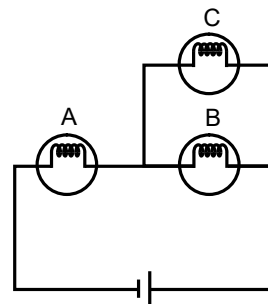
$$X + Y, X - Y, X \times Y, X \div Y$$

Atmost how many of these four expressions can be prime?

1. 1 2. 2 3. 3 4. 4
11. A point traversed half of the distance with a velocity v_0 . The remaining part of the distance was covered with velocity v_1 for half the time and with velocity v_2 for the other half of the time. The mean velocity of the point averaged over the whole time of motion is
1. $\frac{v_0 + v_1 + v_2}{3}$ 2. $\frac{2v_0 + v_1 + v_2}{3}$
3. $\frac{v_0 + v_1 + 2v_2}{3}$ 4. $\frac{2v_0(v_1 + v_2)}{2v_0 + v_1 + v_2}$
12. A body travels at the uniform speed of 3 m/sec for 20 seconds, and then it stops for 10 seconds and then travels at uniform speed of 2 m/sec for 20 seconds. Its average speed during the motion is
1. 2.0 m/sec 2. 2.5 m/sec 3. 3.0 m/sec 4. 0.2 m/sec
13. A car runs at constant speed on a circular track of radius 100 m taking 62.8 secs on each lap. What is the average speed and average velocity on each complete lap?
1. Velocity 10 m/sec, speed 10 m/sec 2. Velocity zero, speed 10 m/sec
3. Velocity zero, speed zero 4. Velocity 10 m/sec, speed zero

14. Three bulbs A, B and C are connected as shown in the figure. B and C are identical. If the bulb C is fused.

1. Both A and B will glow more brightly
2. Both A and B will glow less brightly than before
3. A will glow less brightly and B more brightly
4. None of the bulbs will glow



15. A steady current is passing through a linear conductor of non-uniform cross-section. The net quantity of charge crossing any cross-section per second is
1. Directly proportional to the area of cross-section
2. Inversely proportional to the area of cross-section
3. Independent of the area of cross-section
4. Directly proportional to the length of the conductor



16. Sonu and Ria measured their body temperature Sonu found his to be 98.6 F and Ria recorded 37°C. Which of the following statement is true?
1. Sonu has a higher body temperature than Ria.
 2. Sonu has a lower body temperature than Ria.
 3. Both have normal body temperature.
 4. Both are suffering from fever
17. A marble tile would feel cold as compared to a wooden tile on a winter morning, because the marble tile.
1. Is a better conductor of heat than the wooden tile.
 2. Is polished while wooden tile is not polished.
 3. Reflects more heat than wooden tile.
 4. Is a poor conductor of heat than the wooden tile
18. Colours of phenolphthalein indicator in acidic and basic medium respectively are.
- | | |
|------------------------|-----------------|
| 1. Pink and Colourless | 2. Blue and red |
| 3. Colourless and pink | 4. Red and blue |
19. Our stomach Contains
- | | |
|----------------------|-------------------|
| 1. Hydrochloric acid | 2. Sulphuric acid |
| 3. Sodium hydroxide | 4. Nitric acid |
20. When we suffer from acidity, we should take
- | | |
|---------------|-------------------|
| 1. Iron tonic | 2. Antacid |
| 3. Vitamins | 4. Lacto calamine |
21. What is the full form of ORS?
- | | |
|------------------------------|------------------------------|
| 1. Oral Dehydration solute | 2. Oral rehydration solution |
| 3. Oral dehydration solution | 4. Oral retention solution |
22. Water from undigested from is absorbed mainly in the
- | | |
|--------------------|--------------------|
| 1. Stomach | 2. Food pipe |
| 3. Small intestine | 4. Large intestine |
23. Digestion is
1. Conversion of complex food particle into simple form.
 2. Conversion of Glucose into ATP
 3. Conversion of sugar into alcohol
 4. Conversion of fat into protein
24. Pseudopodia in Amoeba help in:
- | | |
|--------------------------------------|---|
| 1. Movement only | 2. Capture of food only |
| 3. Both movement and capture of food | 4. Neither movement nor capture of food |
25. Protein digestion mainly in
- | | |
|--------------------|------------|
| 1. Large intestine | 2. Liver |
| 3. Stomach | 4. Kidneys |

