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## CLASS VII <br> GUESS PAPER-02 MATHEMATICS

## General Instructions :-

1. All questions are Compulsory.
2. The question paper consists of 27 questions and it is divided into three Sections $A, B$ and C .
3. Section A comprises of 10 questions carrying 1 mark each.
4. Section B comprises of 11 questions carrying 2 mark each.
5. Section Comprises of 6 questions carrying 3 mark each.
6. Question numbers 1 to 10 in section $A$ are multiple choice questions where you are to select one correct option out of the given four.

## Section A

## (Questions 1 to 10 carry 1 mark each )

1. If $a, b$ and $c$ are integers then, according to distribute law :
A. $a(b+c)=a \times b+c \times a$
B. $a(b+c)=(a+b) c$
C. $a(b+c)=a+b \times a+c$
D. $a(b+c)=a \times c-a \times b$
2. look at the figure below :
A


To draw a line parallel to I though A, the first step will be :
A. Join Atol
B. Join A to B
C. Draw perpendicular from A on I
D. Draw a line through A

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3. A number is chosen at random from 1 to 5 . What is the probability that the number chosen is odd?
А. $\frac{2}{5}$
B. $\frac{.3}{5}$
C. $\frac{1}{4}$
D. $\frac{1}{6}$
4. The solution of the equation $3 x+4=25$ is
A. 7
B. 8
C. 9
D. 6
5. In the figure given below, the measure of $y$ is :

A. 30 degree
B. 50 degree
C. 100 degree
D. 90 degree
6. The measure of angle $x$, in the given figure is :

A. $45^{\circ}$
B. $53^{\circ}$
C. $80^{\circ}$
D. $35^{\circ}$
7. Write full form of ASA in congruence :
A. Angle-side-Angle
B. Angle Side Side
C. Angle-Angle - side
D. SideSide -Side
8. What is answer of $455 \div 100$ :

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A. 4450
B. 4.55
C. 45.500
D. 4.5
9. What is relation in this formula -3 Median -2 Mean $=$ ? :
A. Mode
B. Mean
C. 2 Mode
D. 3 Mean
10.What is solution of $1 \frac{5}{6}-\frac{2}{6}$ :
A. $\frac{5}{6}$
B. $\frac{5}{8}$
C. $\frac{3}{6}$
D. $\frac{3}{2}$

## Section B

## (Questions 11 to 21 carry 2 mark each )

11.What is the measure of complement of each of the following angle ??
(a) $45^{\circ}$
(b) $54^{\circ}$
(c) $70^{\circ}$
12.Write the following equations in statement form :
(a) $6 n+4=10$
(b) $\frac{Y}{2}-3=9$
13.Ram has solved $\frac{4}{8}$ part of an exerxise while hema solved $\frac{1}{2}$ part of it. Who has solved more.
14. How many angles are formed when 2 lines intersect?

15 . How many 0.5 cm long strips of ribbon can be cut from a ribbon that is 150 cm long ?
16. Verify $a-(-b)$ for the following values of $a$ and $b$.
(i) $a=21, b=15$
(ii) $a=120, b=-230$
(iii) $a=-112, b=150$
17.Use the signs of $>,<$ or $=$ in the given box to make the statements true :
(i) $(-45)+(-9) \quad \square(-61)+(-54)$

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(ii) $(-8)+(12)(5)+(-52)$
18. Find the product, using suitable properties:
(i) $26 \times(-45)+(-21) \times 48$
(ii) $15 \times(-56)-(-84) \times 89$
(iii) $81 \times(78-52)$
19.Solve the following equations :
(i) $\mathrm{Y}+14=45$.
(ii) $4 / 5 x-14=54$.
(iii) $\mathrm{d} / 4+4=8$.
(iv) $2 t / 12-12=26$
20. (a) Construct 3 equations starting with $x=2$.
(b) construct 3 equations starting with $y=-5$
21. Is it possible to have a triangle with the following sides ?
(i) $2 \mathrm{~cm}, 4 \mathrm{~cm}, 5 \mathrm{~cm}$
(ii) $6 \mathrm{~cm}, 3 \mathrm{~cm}, 2 \mathrm{~cm}$

## Section C

## (Questions 22 to 27 carry 3 mark each )

22.The bar graph given below shows the sales of books (in thousands) from six branches of a publishing company during two consecutive years 2000 and 2001

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(1) What is the ratio of the total sales of branch B2 for both years to the total sales of branch B 4 for both years ?
(2) What is the average sale of all the branches (in thousand numbers) for the year 2000 ?
(3) Total sales of branch B6 for both the years is what percent of the total sales of branches B 3 for both the years ?
23. Let $A B C$ be an isosceles triangle in which $A B=A C$ and $B D$ is perpendicular to $A C$.

Then- Prove that $\quad B D^{2}-C D^{2}=2 A D . C D$

24.Name all the corresponding parts of the congruent figures given below :

25.Write name of properties of Addition and substraction of integers. Write their formulae with examples.
26. The runs scored in a cricket match by 11 players is as follows :
$6,120,50,100,15,15,8,10,15,80,10$. Find the mean, mode and median of this data.
Are the three same ?

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27. $A M$ is a median of a triangle $A B C$. Is $A B+B C+C A>2 A M$.
