

# CLASS VII 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 C 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 :

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A. a (b+c)=a \timesb + c\timesa
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B. a(b+c) =( a +b )c
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C. a(b+c)=a + b \times a + c
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- D. a(b+c)=a ×c a × b
- 2. look at the figure below :

P.

To draw a line parallel to I though A, the first step will be :

- A. Join A to I
- B. Join A to B
- C. Draw perpendicular from A on I

+1

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 ?



- 4. The solution of the equation 3x + 4 = 25 is
  - A. 7 B. 8 C. 9 D. 6
- 5. In the figure given below , the measure of y is :

<u>150</u>°



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



- 7. Write full form of ASA in congruence :
  - A. Angle side Angle B. Angle Side Side C. Angle Angle side D. Side-Side 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°(b) 54°(c) 70°
- 12. Write the following equations in statement form :

(a) 
$$6n + 4 = 10$$
 (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) (-61) + (-54)

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



- sales of branch B4 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 B3 for both the years ?
- 23.Let ABC be an isosceles triangle in which AB =AC and BD is perpendicular to AC. Then- Prove that  $BD^2 - CD^2 = 2AD.CD$



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. AM is a median of a triangle ABC. Is AB+ BC + CA > 2AM.

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