## ATOMIC ENERGY EDUCATION SOCIETY TERM –I EXAMINATION (2017-18) Date of Exam - 18 Sept. 2017

SUBJECT – MA CLASS – VII	D ATH	ate of Exam	1 - 18 Sept. 2017	Marks – 80 TIME - 3 Ho	urs
General Instructio This Question pap Section-A, Contain Section-B, Contain Section-C, Contain Section-D, Contain	ns:- ber is divided ir n 10 Questions n 10 Questions n 10 Questions n 5 Questions	nto four sectic s each carryir s each carryir s each carryir each carrying	ons. ng 1 mark. ng 2 marks. ng 3 marks. g 4 marks.		
Section-A(Q.1 to	Q.10 Write th	e correct an	swer)		(1x10=10)
Q1. Fill in the blan a) 2	k: -13+ b) 3	= -15 c) -2	d) -3		
Q2. For a non zero a) $a \div 0$	b) $0 \div a$	n of the follow c) $a \div 1$	<i>ing is not defined ?</i> d) $1 \div a$		
Q3 $\frac{2}{5}$ X 5 $\frac{1}{5}$ is	equal to				
a) $\frac{26}{25}$	b) $\frac{52}{25}$	c) $\frac{2}{5}$	d) 6		
Q4 The value of 0 a)2.7	.3x0.3x0.3 is b)3	c).027	d)27		
Q5. Mean of the fi a) 2.5	rst two prime r b)3	numbers is c)5	d)2.7		
Q6. Form the equation $a) \frac{1}{3} \times 5x = 8$	ation "One thir 3 b) $\frac{5}{3}$	d of a numbe + x=8	r plus 5 is 8" c)x+ $\frac{1}{3}$ +5=8	d) $\frac{1}{3}$ x+5=8	
Q7. The range of ( a) 3	6,7,5,3,4,2,1 is b)6	c)5	d)4		
Q8. A triangle has a)3	Elem b)4	nents c)5	d)6		
Q9. An angle is gr a) Greater t c) less than	eater than 45° than 45° i 45°	. Is it compler b)equal to 4 d)all of thes	mentary angle 45° se.		

- Q10.  $\Delta CAB \cong EDF$  then which of the following is not true: a) AC=DE b) AB=EF
  - c) LA=LD d) LC= LE

## Section-B (Q.11 to Q.20)

Q 11. Find the product : 7 X (50 - 2)

- Q 12. Multiply:  $6\frac{2}{5} \times \frac{7}{9}$
- Q 13. Write the decimal 200.03 in expanded form
- Q 14. What is the probability that a student chosen at random out of 3 girls and 4 boys is a boy.
- Q 15. Solve: 5t+25=10
- Q 16. Add 4 to eight times a number, you get 60, find the number.
- Q 17. The difference in the measures of two complementary angles is 12°. Find the measure of the angles.
- Q 18. Identify the pair of alternative interior angles in the given fig.



- Q 19. One of the acute angle of a right triangle is 58°. Find the other acute angle.
- Q 20. If  $\triangle PQR \cong \triangle EFD$
- i. Which side of  $\triangle PQR$  equal to ED ?
- ii. Which angle  $\triangle PQR$  equal to LE?

## Section-C (Q.21 to Q.30)

Q 21. In Fig AD=DC and AB=BC



i. Is 
$$\triangle ABD \cong \triangle CBD$$

ii. State the three parts of matching pairs you have used to answer (i)

(3x10=30)

Q 22. In the given figure can you use ASA congruence rule and conclude that  $\Delta$  AOC  $\cong \Delta$  BOD



Q 23. In lengths of two side of a triangle are 12 cm and 15 cm. Between what two measures should the length of third side fall.

Q 24. Draw the rough sketch for the following.

- (I)  $\triangle ABC$ . BE is a median.
- (II)  $\Delta PQR$ , PQ is an altitude.

Q 25. Find x .



Q 26. In the fig: p II q Find the unknown angle.



Q 27. Sachin scored twice as many runs as rahul. Together their runs fell two short of a double century. How many runs did each one score?

Q 28. Find the mode and median of the data :13,16,12,14,19,12,14,13,14.

Q 29. The thickness of 24 sheets of paper is 4.32mm. Find the thickness of one sheet.

Q 30. Fill in the blank :

(I) ..... X (-12) = 32

(I) ..... ÷ 48 = -1

## Section D (Q. No. 31 to 35)

(4x5=20)

Q 31. In Fig. AB=AC and AD is the bisector of <BAC

- i. State three pairs of equal parts in  $\triangle ADB$  and  $\triangle ADC$
- ii. Is  $\triangle ADB \cong in \triangle ADC$
- iii. Is <B=<C



Q 32. A tree is broken at a height of 5 m from the ground and its top touches the ground at a distance of 12 m from the base of the tree. Find the original height of the tree.

Q 33. Ravish owns a plot of rectangular shape. He has forced it with a wire of length 750 m. The length of the plot exceeds the breadth by 5 m. Find the length and breadth of the plot.

Q 34. The performance of a student in	1 <sup>st</sup> term	and 2 <sup>nd</sup>	term is	given.	Draw a	double	bar	graph
choosing appropriate scale.				-				_

Subject	English	Hindi	Maths	Science	So. Science
1 <sup>st</sup> Term	67	72	88	81	73
2 <sup>nd</sup> Term	70	65	95	85	75

Q 35. Find :

- i) 100.01 x 1.1
- ii) 2.73 ÷ 1.3