KENDRIYA VIDYALAYA SANGATHANDEHRADUN REGION

Term II Examination (Session-2021-22)

Subject: Mathematics

Class- VIII

SAMPLE QUESTION PAPER [SET 2]

Max.Marks: 40

General instructions:

1. All questions are compulsory

2. This question paper contains 32 questions divided into 4 sections Sections-A, B, C and D

3. Section – A comprises 20 Multiple Choice questions of 1 mark each,

Section –B comprises 6 questions of 1 mark each,

Section – C comprises 4 questions of 2marks each.

Section –D comprises 2 questions of 3 marks each.

SECTION A. (MCQ) **1x20= 20**

1.	Euler's formula for a polyhedron is				
2.	a) $F+V=E-2$. b) $F+V=E+2$. c) $F+E=V+2$. d) $F+E=V-2$.				
	Two quantities are said to be in direct proportion if they both increase or decrease in the same				
	a) Direction. b) ratio. c) time d) Speed				
3.	Any base with exponent 0 is equal to	1			
	a) 0 b) 1. c) -1. d) none of these				
4	The usual number for $3x10^{-6}$	1			
	a)0.00003. b) 0.00000003. c) 0.000003 d) 0.0003				
5.	3y(2x+5)=	1			
	a) $6xy+5$ b) $6xy+15$. c) $6xy+15y$ d) none of these				
6.	6. The common factor of $16x^3$ and $32x$ is				
	a) 16 b) x c) 16x d)				
	16x ³				
7.	If 21y5 is a multiple of 9, where y is a digit, then value of y is				
	a) 9 b) 3 8.c) 1 d)10				

Time: 2 hours

8.	The area of 9.a rhombus is 240 cm^2 and one of its diagonals is 16cm, then the other			
	diagonal is			
	a) 60 cm b) 30 cm c) 90 cm d)120 cm			
9.	The value of 2^{-3} is	1		
	a) 8 b)1/6 c) 1/8 d)61			
10.	A 10 m high pole cast a shadow 6 m long. The length of the shadow a 6 m high pole will	1		
	cast at the same time is			
	a) 10m b) 3.6m c) 6m d) 12m			
11.	. A line graph which is a whole unbroken line is called a	1		
	a) Bar graph b) pie graph c) histogram d) linear graph			
12.	Write in usual form : $100x7 + 10x1 + 8$	1		
	a) 781 b) 817 c) 718 d) 187			
13.	$(10x - 25) \div 5$ gives	1		
	a) 2x-25 b) 10x-5 c) 2x-5 d) 10x-2			
14.	The height of a cuboid whose volume is 275 cm^3 and base area is 25 cm^2 is	1		
	a) 15cm b) 11 cm c) 25 cm d) 13 cm			
15.	Area of a parallelogram is given by	1		
	a) bxh b) $\frac{1}{2}$ xbxh c) 2xbxh d) none of these			
16.	The lateral faces of a pyramid are	1		
	a) Rectangle b) square c) triangle d) parallelogram			
17.	Q17. The product of $(a^3) x (a^{25}) x (a^{72})$ is	1		
	a) $3a$ b) a^{110} c) a^{100} d) a^{1000}			
18.	. Number of faces in a triangular pyramid is	1		
	a) 3 b) 4 c) 5 d) 6			
19.	1 m^3 is equal to	1		
	a) 10 L b) 100 L c) 1000 L d) 10000 L			
20.	The standard form of 0.0000003 is	1		
	a) 3×10^{-7} b) 3×10^{7} c) 3×10^{6} d) 3×10^{-6}			

	SECTION B (VSA)	1X6:			
21.	If (A B) x 3= C A B, where A,B and C are digits , then find the possible value of A,B	1			
	and C				
22.	Plot the following points on a graph sheet	1			
	A(0,2) , B (2,3)				
23.	Find the number of faces of a polyhedron having 16 edges and 12 vertices.	1			
24.	I. Simplify $(-4)^{-5}$ x $(-4)^{10}$ and write your answer with positive exponent				
25.	Expand using identity: $(3m-4n)^2$				
26.	Find the value of m for which $5^{m} \div 5^{-3} = 5^{5}$	1			
	SECTION C. (SA) 2x4=	-8			
27.	Simplify	2			
10	3x(2x+3y) - 5x(3y-2x) + 5xy	2			
28.	A car traveling with uniform speed of 60 km/hr covers a distance in 4 hrs. What should be thespeed of the car if the driver wants to cover the same distance in 3 hrs.				
29.	A road roller takes 750 complete revolution to move once over to level a road. Find the				
	area of the road if the diameter of the road roller is 84 cm and length is 1 m.				
30.	Evaluate using suitable identity: 297 x 303.	2			
	SECTION D (LA) 3X2	2=6			

Draw the graph for the following data:Distance travelled by a car

with a uniform speed

Time (in hours)	6 a.m.	7 a.m.	8 a.m.	9 a.m.
Distances (in km)	40	80	120	160

- How much distance did the car cover during the period 7:30 am to 8 a.m. i)
- What is the time when the car had covered a distance of 100 km since its ii) start.

32. Factorise the expression and divide them as directed $(m^2 - 14m - 32) \div (m+2)$