KENDRIYA VIDYALAYA BHU (F.S) VARANASI

HALF YEARLY EXAMINATION 2024-25

CLASS VII

SUBJECT- MATHEMATICS

Time: $2\frac{1}{2}$ HOURS MM: 60

General Instructions:

- **1.** This Question paper contains- five sections A, B, C, D and E.
- 2. Section A has 14 MCQ's of 1 mark each.
- **3.** Section B has 4 Very short answer type questions of 2 marks each.
- **4.** Section C has 5 Short Answer (SA)-type questions of 3 marks each.
- **5.** Section D has 3 Long Answer (LA)-type questions of 5 marks each.
- **6.** Section E has 2 sources based/case based/passage based/integrated units of assessment (4 marks each) with sub parts.

Q.N			SECTION-A			MARKS		
1.	When two negative integers are multiplied, we get							
	(a) a positive integer	(b) a negative in	nteger (c) a ar	nd b both (d) no	ne of these.			
2.	The sum of a positive	integer and a ne	egative integers	is		1		
	(a) a positive integer	(b) a negative	integer (c) a	and b both (d) a	or b			
3.	What is 3/8 of 2.4?					1		
		b) 1.8	(c) 0.9	(d) 2.4				
4.	1.1 × 100 is equal to					1		
) 110	(c) 111	(d) 100				
5.	The number of tourists	The number of tourists visiting a historical place in a week is shown in the following table						
	<u>:</u>							
	DAY	NO. OF VISIT	ΓORS					
	MONDAY	65						
	TUESDAY	160						
	WEDNESDAY	98						
	THURSDAY	84						
	FRIDAY	60						
	SATURDAY	108						
	SUNDAY	69						
	Answer the following related questions from 5 to 6							
	On which day is the number of tourists maximum?							
			7	(d) Saturday	12.5			
6.	What is the difference			_	-	1		
		b) 24	(c) 38	(d)	5			
7.	The solution of the equ				(1)	1		
	(a) -1	(b) 6	(c) -2	22	(d) 2			
8.	The number, if sum of					1		
	(a) 1 (b)		(c) 3	(d) 6		1		
9.	The sum of the measures of two supplementary angles is?							
		b) 90 ⁰	$(c) 0^0$		d) 45 ⁰			
10.	When the sum of the n	neasures of two	adjacent angles	s is 90° , the angles	s are called?	1		

	(a) Complement	tary (b) Sur	plementary (c) Co-interior	(d)Linea	ar Pair					
11.	A Triangle has?						1				
	_	(b) 2Median	(c)) 3Median	(d) 4M	edian					
12.	The exterior ang			,	(**)		1				
	(a)Sum of any ty			Sum of two oppo	osite interio	r angles					
	(c) Sum of all in			None of these							
13.	The ages of fath	er and son are	55 years and 25	years. The ratio	of their age	es is 9:2	1				
	(a) 9:2	(b) 11:5	(c) 2	2:3	(d)	7:3					
14.	If the cost of 5 e	If the cost of 5 envelopes is 15, then the cost of 7 envelopes is									
	(a) 15	(b) 21	(c) 25		(d) 30						
	SECTION-B										
15.	Solve using suita	able properties	$5; -31 \times 37 + 37$				2				
16.	Rajesh solved 2 / 11 part of an exercise while Semi solved 4/5 of it. Who solved lesser										
	part and how mu										
17.		Find the angle which is equal to its complement.									
18.	Find the ratio of	5 km to 1500	m. SECTION				2				
19.	The three angles		are in the ratio 3	:2:5. Find all the	e angles of the	he triangle.	3				
	Classify the triangle. The difference in the measures of two supplementary angles is 70°. Find the measures of										
20.	The difference in	n the measures	of two supplem	nentary angles is	$5/0^{\circ}$. Find the	he measures of	3				
24	the angles.	2. 15					3				
21.	Solve; $-3($	$(x + \frac{1}{7}) = \frac{15}{7}$					3				
							3				
22.				students in a sc	tudents in a science test are 85, 76,						
	90, 85, 39, 48, 5			1 .							
	(i) Highest and the lowest marks obtained by the students.										
	` /	(ii) Range of the marks obtained.(iii) Mean marks obtained by the group.									
23.	2						3				
25.	Ritu ate $\frac{3}{11}$ part										
	How much part	of the apple di			r share? By l	how much?					
			SECTION								
24.	A shopkeeper ea			one pen and inc	urs a loss of	f 40 paise per	5				
		pencil while selling pencils of her old stock. (i) In a particular month she incurs a loss of Rs 5. In this period, she sold 45 pens. How									
				s 5. In this perior	d, she sold ²	45 pens. How					
	many pencils did (ii) In the next m			or loss If sho s	old 70 none	hovy many					
	pencils did she s		s neunci pront i	101 1055. 11 5110 50	oid 70 pens,	now many					
25.	Consider this da		om a survey of a	colony			5				
	Favourite	Cricket	Basket Ball	Swimming	Hockey	Athletics					
	Sport										
	Watching		470	510	423	250					
		1240									
	Participating		320	320	250	105					
		620			1						
	(i) Draw a doubl	le bar graph ch	oosing an appro	priate scale. Wh	nat do you in	nfer from the bar					
	graph?										
	(ii) Which sport										
	(iii) Which is more preferred, watching or participating in sports?										
26.	(i) Rahul hayaht	t a curator and	caved rupass 2	M when as diss	ount of 250/	was given	5				
20.	(i) Rahul bought a sweater and saved rupees 200 when an discount of 25% was given. What was the price of the sweater before the discount?										
	(ii) Rupees 7000 is borrowed at 3.5% rate of interest p.a borrowed for 2 years. Find the										
				P 00110			I .				

	amount to be paid at the end of the second year.							
	SECTION-E							
27.	Pets owned by students of class seven							
	Students Others							
	Use the bar graph (Fig 3.3) to answer the following questions. (a) Which is the most popular pet? (b) How many students have dogs as a pet? (c) Which is the least popular pet? (d) What is the difference of most popular pet and least popular pet?							
28.	In the adjoining figure, name the following pairs of angles.							
	 (i) Obtuse vertically opposite angles (ii) Adjacent complementary angles (iii) Equal supplementary angles (iv) Unequal supplementary angles OR (v) Adjacent angles that do not form a linear pair 							
	A E D C							