VIVEKANANDA MISSION SCHOOL (HALDIA)

Second Term Examination (2021-2022)

Class: X ; Subject: Mathematics; M.M : 50 ; Duration: $1\frac{1}{2}$ Hrs; Date: 27.09.21 Maximum Marks: 50 ALL QUESTIONS ARE COMPULSORY. Select the correct option for each of the following questions. Section A [20 Marks] [20 x 1 = 20] Q.1) Ms. Sarita deposits ₹ 500 every month in a recurring deposit account for 2 years at 9% S.I. p.a. Find the interest she will earn in 2 years. (a) ₹1521 () ₹ 1125 (b) ₹ 2511 (d) ₹ 1100 Q.2) If $5x - 3 \le 5 + 3x \le 4x + 2$ is expressed as $a \le x \le b$, then the values of a and b are: (a) a = 4, b = 3 (b) a = 2, b = 3 (c) a = 3, b = 3 (d) a = 3, b = 4 Q.3) Which of the following equations cannot be written in the form $ax^2 + bx + c = 0$? (a) $(x + 2)^3 = x^3 - 4$ (b) $x(2x + 3) = x^2 + 1$ (c) x(x + 1) + 8 = (x + 2)(x - 2)(d) $(x-2)^2 + 1 = 2x - 3$ Q.4) The value of x such that 35, x, 7, 5 are in proportion, is (a) 49 (b) 25 (c) 37.5 (d) 15 Q.5) If $A = \begin{bmatrix} 1 & -1 \\ -1 & 1 \end{bmatrix}$ and $AB = \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$, what is B? (a) $\begin{bmatrix} -1 & 1 \\ 1 & -1 \end{bmatrix}$ (b) $\begin{bmatrix} 1 & 1 \\ 1 & 1 \end{bmatrix}$ (c) $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ (d) $\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$ Q.6) A dealer is in Jhansi buys some articles worth ₹ 8,000. If the rate of GST is 18%, find how much will the dealer pay for the articles bought. (c) ₹ 9440 (d) ₹ 9404 (a) ₹4049 (b) ₹9044 Q.7) For what value of k, (2x - k) is a factor of $2x^3 - 9x^2 + x + 12$? (b) -2 (c) —1 (d) 3 (a) 2 Q,8) If X and Y are any two, 2X2, matrices such that XY = X and Y is not a zero matrix, then what can you say about the matrix Y? (b) Identity matrix (c) Row matrix (a) Diagonal matrix (d) Column matrix. Q.9) What is the 9th term from the end (towards the first term) of the A.P. 5, 9, 13,....,185. (b) 153 (a) 315 (c) 351 (d) 531 Q.10) Which of the following is a true statement. Two similar figures : (a) may not be congruent (b) are also congruent (c) have no relationship with congruent (d) exactly cover each other when superimposed one over the other. Figures Q.11) In an A.P., if a = 1, a_n = 20, and S_n = 399, then n is (a) 19 (b) 21 (c) 38 (d) 42 Q.12) If x ϵ R, the solution set of $6 \leq -3(2x - 4) < 12$ is $(x) \{x : x \in \mathbb{R}, 0 < x \le 1\}$ (b) { $x : x \in R, 0 \le x < 1$ } (c) { 0, 1 } (d) none of these Q.13) The quadratic equation $2x^2 - \sqrt{5}x + 1 = 0$ has (a) two distinct real roots (b) two equal real roots (c) no real roots (d) more than two real roots Q.14) If (x + 5) is a factor of $5 + x - 5x^2 - x^3$, the other factor is : (b) 1 - x (c) $x^2 - 1$ (a) x + 1 (d) $1 + x^2$ Q.15) If a, b, c are in continued proportion, then (d) c = $\frac{a^2}{b}$ (a) b = a + c(b) b = + \sqrt{ac} (c) c = ab Q,16) Mr Sharma deposited ₹ 500 every month in a cumulative deposit account for two years. If the bank pays Interest at the rate of 7% per annum, then the amount he gets on maturity is (b) ₹6875 (c) ₹ 10875 (⋬) ₹12875 (a) ₹875 Q.17) Mr. Bedi visits the market and buys the following articles : Medicines costing ₹ 950, GST @ 5%, A pair of Shoes costing ₹ 3000, GST @ 18% , A Laptop bag costing ₹ 1000 with a discount of 30% GST @ 18%. The Total amount of GST paid by Mr Bedi: (a) ₹ 713.50 (b) ₹ 315,70 (c) ₹573.10 (d) ₹175.13

Q.18)	Find the tenth te	erm of the sequence	ie $\sqrt{2}$, $\sqrt{8}$, $\sqrt{18}$,			
	(a) 20√2	(∕ 6) √200	(c) √ <u>300</u>	(d) 10√3		
Q.19)	In Δ ABC and $~\Delta$ I	EDC, AB is parallel	to ED. BD = $\frac{1}{3}$ BC and A	AB = 12.3. Find DE		
	(a) 2.8 cm	(c) 3.6 cm	n (ø) 8.2 cn	n (d) 5.6 cm		
Q.20)	If the equation	x^2 + 2(k + 2)x + 9	k = 0 has a repeated ro	ot, the value of k are		
	(a) 1,4	(b) – 1, 4	(c) 1, 4	(d) – 1, 4.		
	-					
		S	ection B [14 Ma	rks]	[7X2= 14]	
Q.21)	Q.21) A shopkeeper bought an article with market price ₹ 1200 from the wholesaler at a discount of 10%.					
	The shopkeeper	sells this article to	the customer on the m	harket price printed on it.	If the rate of GST	
	Is 6% then find:	(i) GST paid by the	wholesaler:			
	(a) ₹80.64	(b) ₹ 60,84	(9) ₹ 64.8	30 (d) ₹ 46.8	80	
	(ii) Amount paid	by the customer t	o buy the item :			
	() ₹ 1272	(b) ₹ 7212	(c) ₹ 2172	(d) ₹ 6424		
Q.22)	lfa:b=5:3,th	nen (5a + 8b) : (6a	– 7b) is equal to :			
	(a) 15 : 9	(b) 49: 9	(c) 37: 18	(d) 40 : 24		
Q.23)	If (k – 3), (2k + 1) and (4k + 3) are 1	three consecutive term	is of an A.P., find the valu	ie of k.	
	(a) $k = 6$	(b) k = 9	(c) k = 2	(d) k = 2		
Q.24)	Find 'a' if the tw	o polynomials ax	$x^{3} + 3x^{2} - 9$ and $2x^{3} + 3x^{2} - 9$	4x + a, leaves the same re	emainder when	
	divided by $x + 3$					
	(a) a =3	(a) a = 3	(c) a = 2	(d) $a = 1$		
Q.25)	The roots of the	quadratic equation	$1(x-1)^{-} - 3x + 4 =$	0 are 3.618, 1.382. In	le roots correct to	
	2 significant fig	ure: (b) 2 5 and	d 1 0 (a) 2 (Cand 1.4 (d) 2.Ca	nd 1 F	
0.20	5.7 driu 1.4		u I.Z (C) 3.C	o aliu 1.4 (u) 3.0 a	nu 1.5	
Q.20)	(x) = 2	$< 3 - 2x \leq 7$, which $\sqrt{x} = 1$	(c) 2	(4) 2 ! X II		
(a) -2 (b) 1 (c) 2 (d) 3 (c) 27) Bethe energy densit account for 20 menths. The rate of interact is 0% per annum and						
	Rekha onened a	recurring denosit a	account for 20 months	The rate of interest is 9%	ner annum and	
Q.27)	Rekha opened a Rekha receives ₹	recurring deposit a	account for 20 months.	The rate of interest is 9%	per annum and	
Q.27)	Rekha opened a Rekha receives ₹ (a) ₹560	recurring deposit a 441 as interest at (b1 ₹ 280	account for 20 months. the time of maturity. F (c) ₹ 360	The rate of interest is 9% ind the amount Rekha de (d) ₹ 480	per annum and posited each month.	
Q.27)	Rekha opened a Rekha receives ₹ (a) ₹560	recurring deposit a 441 as interest at (d) ₹ 280	account for 20 months. the time of maturity. F (c) ₹ 360	The rate of interest is 9% ind the amount Rekha de (d) ₹ 480	per annum and posited each month.	
Q.27)	Rekha opened a Rekha receives ₹ (a) ₹560	recurring deposit a 441 as interest at (d) ₹ 280 Sec	account for 20 months. the time of maturity. F (c) ₹ 360 tion C [16 Marks	. The rate of interest is 9% Find the amount Rekha de (d) ₹ 480 s]	per annum and posited each month. [4X4 = 16]	
Q.27)	Rekha opened a Rekha receives ₹ (a) ₹560 Manjeet, Dilawa	recurring deposit a 441 as interest at (ط) ₹ 280 Sec r and Ravi live in th	account for 20 months. the time of maturity. F (c) ₹ 360 tion C [16 Marks ne same city. Manjeet s	. The rate of interest is 9% Find the amount Rekha de (d) ₹ 480 s] sells an article to Dilawar f	per annum and posited each month. [4X4 = 16] for ₹ 60,000 and	
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Q.28)	Rekha opened a Rekha receives ₹ (a) ₹ 560 Manjeet, Dilawa Dilawar sells the the rate of 12%,	recurring deposit a 441 as interest at (b) ₹ 280 Sec r and Ravi live in th same article to Ra find:	account for 20 months. the time of maturity. F (c) ₹ 360 tion C [16 Marks he same city. Manjeet s vi at a profit of ₹ 8,000	The rate of interest is 9% ind the amount Rekha de (d) ₹ 480 sells an article to Dilawar f . If all the transactions are	per annum and posited each month. [4X4 = 16] for ₹ 60,000 and e under GST system at	
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Q.28)	Rekha opened a Rekha receives ₹ (a) ₹ 560 Manjeet, Dilawa Dilawar sells the the rate of 12%, (i) Input – (a) ₹ 8160	recurring deposit a 441 as interest at (b) ₹ 280 Sec r and Ravi live in th same article to Ra find: tax payable by Dila (b) ₹ 7200	account for 20 months. the time of maturity. F (c) ₹ 360 tion C [16 Marks he same city. Manjeet s vi at a profit of ₹ 8,000 awar (c) ₹ 3600	. The rate of interest is 9% Find the amount Rekha de (d) ₹ 480 s] Sells an article to Dilawar f I f all the transactions are (d) ₹ 4080	per annum and posited each month. [4X4 = 16] For ₹ 60,000 and e under GST system at	
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