KENDRIYA VIDYALAYA SANGATHAN

REGIONAL OFFICE VARANASI

SUMMATIVE ASSESSMENT-II (2016-17)

		301	••••		JLJJ1V		010 177		
CLASS \	VIII						Maximum marks : 60		
Sub: MATHEMATCS							Time : 2:30 Hrs		
General Ir	nstruct	ions:							
((i)	All question	s are o	compulso					
(The question paper contains 26 questions divided into four sections A, B,C and D. Section A contains 8 questions of 1 mark each. Section B contains 6 questions of 2 marks each. Section C contains 8 questions of 3 marks each and section D contains 4 questions of 4 marks each.							
		[Section A]							
Select the	e corre	ct answer fr	om th	e given fo	our alte	rnative ans	swers.		
1. The pro	oduct o	f-6xy and 2	2x2 is						
(a) 12xy	(b) -1 <i>2x</i> ²y	(c)	-8 <i>x</i> ² <i>y</i>	(d)-1	2x³y			
2. The nui	mber o	f faces in a t	riangı	ılar pyrar	nid is				
(a) 5	(b)	4		(c) 6		(d)3			
3. If the e	dge of	a cube is do	ubled	then its s	urface	area becon	nes		
(a) 8 time	s	(b) 4times	•	(c) 2 tim	nes	(d) no c	hange		
4. The val	ue of {	5) ⁻² is							
(a)-25		(b) -5		(c) $\frac{1}{25}$		(d) 10			
5. If 6 per	sons (an dig a pit	in 20 (days, the	n 15 p	ersons cai	n dig it in:		
(a)8days	(b)	12days	(c)	15days		(d) 18day	/S		
6. Which	one of	the followin	g poin	its lies on	X-axis				

(a) 436	(b) 531	(c) 208	(d) 235					
8. The highest common factor of $-6xy$ and $2x^2$ is								
(a) 2x	(b)2xy	(c)3xy	(d)-3xy					
			[Section B]					
9. Find the area of a rhombus whose side is 8cm and altitude is 4.5cm.								
10. Subtract 2x- 3y + 4z from 7 x -8 y+ 5z.								
11 Work out the following division								
$\{20x-16\} \div (5x-4)$.								
12.Plot the points (2,1),(0,4),(5,0) and(3,4) on graph sheet.								
13. How a prism and a cylinder are alike? Explain.								
14. Find value of the letters in the following addition –								
4 A								
+ 9 8								
С В 3								
	[Section C]							
15. Simplify: (3x + 5) ² - (3x-5) ²								

17. A farmer has enough food to feed 20 animals for 6 days. How long would the food last if

(d) (2,5)

(a) (2,2) (b) (0,3) (c) (4,0)

7. Which one of the following numbers is divisible by3

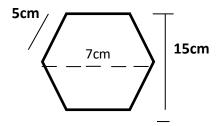
16. using suitable identity evaluate: 195 x 205

 $\left\{ \left(\frac{1}{3} \right)^{-2} - \left(\frac{1}{4} \right)^{-1} \right\}^{-1}$

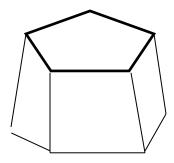
19. From the given figure find area of the regular hexagon.

there were 10 more animals.

18. Simplify:



- 20. Factorize the following expression: $5x^2 20x 8y + 2xy$
- 21. Verify the Euler's formula for the following solid.



22. A machine manufactures 480 articles in 6 hours . How many articles will it manufacture in 9 hours.

[Section D]

- 23. In a building there are 25 cylindrical pillars the radius of each pillar is 28cm and its height is 4m. Find total cost of painting the curved surface area of all pillars at the rate of Rs 10 per m². (Use π = 22/7)
- 24. Population(in thousands) of men in a village in different years is given below:

Year	2003	2004	2005	2006	2007
	12	12.7	11.3	13	13.2
No. of men					

Draw line graph for above data.

(ii)
$$8^{-2} \times 5^3$$
 2^{-3}