KENDRIYA VIDYALAYA SANGATHAN, PATNA REGION

SUMMATIVE ASSESSMENT-II 2015-16

CLASS-VIII

SUB-MATHEMATICS

TOTAL MARKS=60

Time: - 2:30 hours

GENERAL INSTRUCTION:-

- (1)All questions are compulsory
- (2) There are four sections in this question paper as section A, Section B, Section C and Section D.
- (3) Section A MCQ: 1x7=7 marks
 Section B VSA: 2x5=10 marks
 Section C SA: 3x7=21 marks
 Section D LA: 4x3=12 marks
- (4) In OTBA answer the question selecting one theme from given two themes.

Section-A

- 1. Which one is trinomial
 - A. $2x(x^2-1)$
 - B. 3x+y
 - C. xyz
 - D. $3(x+1)^2$
- 2. Total number of vertices of a cuboid is
 - A. 4
 - B. 6
 - C. 8
 - D. none of these

- 3. If the radius & height of cylinder is 7cm and 3cm respectively then its volume will be
 - A. 7π cm³
 - B. 154 cm³
 - C. $2\pi \text{ cm}^3$
 - D. none of these
- 4. The scientific notation of 1035.3
 - A. 1.0353×10⁻³
 - B. 1.0353×10³
 - C. 10.353×10^2
 - D. None of these
- 5. The expression $(x-2)^2$ is equal to.
 - A. X²-4X+4
 - B. X²+4X-4
 - C. X²-4X-4
 - D. None of these
- 6. Co-ordinate (0,0) Lying on
 - A. X-axis.
 - B. Origin.
 - C. 1^{st} quadrant
 - D. Y- axis.
- 7. Which Number is divisible by 9?
 - A. 10125
 - B. 13475
 - C. 3675
 - D. 15925

Section – B

8. Write Euler's formula& verify it for cube.

9. The base and altitude of a parallelogram is 14cm & 10cm finds its area.

Or

The area of a square is 196cm² find its perimeter.

- 10. Evaluate (30+4⁻¹) x4⁻¹
- 11. Factorize: x²-49
- 12. Find the value of letter :-
 - 402 <u>+53A</u> A41

<u>Section – C</u>

- 13. By use of identities find the product of (3x+7)X (3x+8)
- 14. Can a polyhedron have 10 faces 20 edges and 15 vertices? Explain the reason of your answer.
- 15. If each edge of a cube is doubled,
 - (1) How many times will its surface are increase?
 - (2) How many times will its volume increase?
- 16.Evaluate:-

 $\{(1/3)^{-1} - (1/4)^{-1}\}^{-1}$

Or

Find 'm' if (-3) ^{m+1}X (-3) $^{5}=$ (-3)

17.Use the tables below to draw graph. The number of days a hill side city received snow in different years.

Year	2003	2004	2005	2006
Days	8	10	5	12

18. If 31z5 is a multiple of 3, where Z is a digit find the value of Z.

19.Factorize

(1) P²+6P+8 (2) x²-(x-y)²

Section-D

- 20. Divide the given polynomial by the given polynomial.
- $(1)(5x^2-6x)/3x$
- (2) $(y^2+7y+10)/(y+5)$
- 21. Find the height of a cuboid whose base area 180 cm² and volume is 900 cm³?
- 22.A factory requires 42 machines to produce a given number of article in 63 days. How many machines would be required to produce the same number of article in 54 days?

<u>OTBA</u>

Theme-1 Cleanliness

Q.1 . What is deadline for completion of Swachh Bharat Mission and what is the reachoosing that year?	ason for 4	
Q.2 . What was the pledge of Swachh Bharat Abhiyan? In which year, the Indian PM Modi lauched it?	1 Narendra 4	
Q.3 . Name the country that issued least carbon credits.	2	
Theme-2 Global Warming		
Q.1 . What are the percentage of CO_2 and Methane gases in annual greenhouse gasector.	s emitted by 4	
Q.2. Write some harmful effects of global warming on agriculture.		
Q.3 . What do you mean by Global warming?	2	