

## 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:  $1 \times 7 = 7$  marks  
Section B            VSA:  $2 \times 5 = 10$  marks  
Section C            SA:  $3 \times 7 = 21$  marks  
Section D            LA:  $4 \times 3 = 12$  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.  $7\pi \text{ cm}^3$
  - B.  $154 \text{ cm}^3$
  - C.  $2\pi \text{ cm}^3$
  - D. none of these
4. The scientific notation of 1035.3
- A.  $1.0353 \times 10^{-3}$
  - B.  $1.0353 \times 10^3$
  - C.  $10.353 \times 10^2$
  - D. None of these
5. The expression  $(x-2)^2$  is equal to.
- A.  $x^2 - 4x + 4$
  - B.  $x^2 + 4x - 4$
  - C.  $x^2 - 4x - 4$
  - D. None of these
6. Co-ordinate (0,0) Lying on
- A. X-axis.
  - B. Origin.
  - C. 1<sup>st</sup> 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  $196\text{cm}^2$  find its perimeter.

10. Evaluate  
 $(30+4^{-1}) \times 4^{-1}$
11. Factorize:  $x^2-49$
12. Find the value of letter :-  
402  
+53A  
A41

### **Section – C**

13. By use of identities find the product of  
 $(3x+7) \times (3x+8)$
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 area increase?  
(2) How many times will its volume increase?
16. Evaluate:-  
 $\{(1/3)^{-1} - (1/4)^{-1}\}^{-1}$

**Or**

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

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)  $P^2+6P+8$

(2)  $x^2-(x-y)^2$

## **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  $180\text{ cm}^2$  and volume is  $900\text{ cm}^3$ ?

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?

## **OTBA**

### **Theme-1 Cleanliness**

**Q.1.** What is deadline for completion of Swachh Bharat Mission and what is the reason for choosing that year? 4

**Q.2.** What was the pledge of Swachh Bharat Abhiyan? In which year, the Indian PM Narendra Modi lauched it? 4

**Q.3.** Name the country that issued least carbon credits. 2

### **Theme-2 Global Warming**

**Q.1.** What are the percentage of  $\text{CO}_2$  and Methane gases in annual greenhouse gas emitted by sector. 4

**Q.2.** Write some harmful effects of global warming on agriculture. 4

**Q.3.** What do you mean by Global warming? 2