#### 8 Class Final Term Exam Mathematics

Maximum Marks = 60 Total Time = 2H

#### **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

#### **Section-A**

- 1. Which one is trinomialA.
  - $2x(x^2-1)$
  - 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 thenits volume will be
  - A.  $7\pi$  cm<sup>3</sup>
  - B. 154 cm<sup>3</sup>
  - C.  $2\pi$  cm<sup>3</sup>
  - D. none of these
- 4. The scientific notation of 1035.3A.
  - 1.0353×10<sup>-3</sup>
  - B. 1.0353×10<sup>3</sup>
  - C. 10.353×10<sup>2</sup>
  - D. None of these
- 5. The expression (x-2)<sup>2</sup> 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

<u>Section – B</u>

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

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

Or

The area of a square is 196cm<sup>2</sup> find its perimeter.

10. Evaluate

$$(30+4^{-1}) \times 4^{-1}$$

- 11. Factorize: x<sup>2</sup>-49
- 12. Find the value of letter :-

402

<u>+53A</u>

**A41** 

#### Section - C

- 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 cityreceived 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)

(2) 
$$x^2$$
-(x-y)<sup>2</sup>

**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 cm<sup>2</sup> and volume is 900 cm<sup>3</sup>?
- 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?