

Que. 1 Answer any four of the following questions. (08)

- (1) Write any four postulates of Euclid.
- (2) Derive the expansion of $(X-Y)^3$.
- (3) Divide $X^3 + 1$ by $X + 1$ and find the remainder.
- (4) Calculate the Mean and Median of 17, 34, 23, 45, 52, 57, 42, 48, 41.
- (5) Add. $3\sqrt{5} + 2\sqrt{2}$ to $\sqrt{5} - \sqrt{2}$.

Que. 2 Answer in detail any one of the following questions. (10)

- (1) Prepared a lesson Plan by selecting any one unit from 9th standard textbook of Mathematics. Keeping mind the following points.
 - Explain in brief content points.
 - Evaluation
 - Black Board work
- (2) Write an article on "Meaning, Characteristics and stages of Project Method" to be published in 'Madhymik Shikshan Parikshan' magazine.

Que.3 Answer any three of the following Questions. (09)

- (1) "Inductive and Deductive methods are inter related to each other."-Explain.
- (2) 'Students will gain a knowledge of Statistics '- Write the six Expected Behavior changes.
- (3) State the advantages and disadvantages of Experimental Method.
- (4) Explain the Utilitarian Value of Mathematics' education with illustration.

Que.4 (A) Answer any one of the following Questions.

- (1) Differentiate between analytic and synthetic method. (04)
- (2) Explain the importance of Mathematics' Education in 21st century.

(B) Answer any one of the following Questions. (04)

- (1) Explain any four types of Quadrilateral.
- (2) Do as directed.
 - (i) Find the value of $(999)^3$ by using an appropriate identity.
 - (ii) Factorize $8X^3 + Y^3 + 27Z^3 - 18XYZ$

(P.T.O)