

SARDAR PATEL UNIVERSITY
B.Ed. (IInd Semester) Examination
Friday, 29 March, 2019
UE02EBD203: Pedagogy of Mathematics

Time: 10.00 am To 11:30 am

Marks : 35

Instructions: - Number on right side indicates marks of question.

- Use of Calculator is not allowed.

Q-1 Write answers of any four questions in brief from the following. (08)

- (1) Define Heron's formula.
- (2) Give the general formula of quadratic polynomial. What will be the graph of $y=a$?
- (3) Give the formula of total area surface and volume of cone.
- (4) A coin tossed 100 times and head is obtained 37 times and tail obtained 63 times. Find the probability of each incident.
- (5) Define the segment and indicate its types by drawing diagram.

Q-2 Write answer of any one question from the following as asked. (10)

- (1) "The Mathematics teacher and Mathematics club are important components for interesting presentation of content of Mathematics."- Discuss this statement in reference to the following points.
 - Professional qualification and qualities of Mathematics teacher
 - Activities of Mathematics club
- (2) "Drill work is an important technique to comprehend the content of Mathematics."- Discuss this statement in relation to the following points.
 - Principles of Drill work
 - Difference between Drill work and Review work

Q-3 Write answers of any three questions from the following. (09)

- (1) Explain the use of problem solving technique with example.
- (2) Clarify the meaning of diagnostic and remedial work.
- (3) Give importance of oral work.
- (4) Give the meaning of Teacher's handbook and explain its importance.

Q-4(A) Write answers of any one question from the following. (04)

- (1) Explain the relationship of Mathematics with other school subjects.
- (2) Give characteristics of good textbook.

Q-4(B) Write answers of any one question from the following. (04)

- (1) Draw the Cartesian plane and define its parts.
- (2) Construct a bisector of line segment of 8 cm and write its necessary points for construction.