

B.Ed. Examination, 2019

Semester-II

Course : B.Ed. 124

Pedagogical Knowledge of School Subject A : Mathematics

Time : 3 Hours

Full Marks : 70

Questions are of value as indicated in the margin.

Group -A

Answer **any two** questions:

15×2=30

1. Discuss the contributions of Ramanujam in the field of Mathematics. 15
2. Discuss the need and importance of planning a lesson. Prepare a lesson plan for 45 minutes duration on any topic from Geometry from class IX. 5+10
3. Discuss the importance of teaching aids. Prepare a blueprint for mathematics laboratory for secondary school. 5+10
4. What do you mean by 'Assessment'? Discuss the 'Continuous and comprehensive Assessment in detail. 5+10

Group-B

5. Attempt **any six** of the following :

5×6=30

- a) What do you mean by 'Axioms'? 5
- b) Describe in brief about the contribution of Euclid. 5
- c) Discuss the relevance of 'Zone of Proximal development' to a mathematics teacher. 5
- d) Describe the Dale's Cone of experience. 5
- e) Prepare a blue print for an achievement Test. 5
- f) Discuss the relevance of contextual learning for a mathematics class. 5
- g) Discuss the importance of mathematics in the school curriculum. 5
- h) Write the major ten characteristics of a good Text Book of Mathematics. 5

Group-C

6. Attempt all the questions :

2×5=10

- a) Write Tolman's functions of learning.
 - b) Explain the concept of Learning by Discovery in Mathematics of secondary level.
 - c) What do you mean by a 'Diagnostic Test'?
 - d) What is 'constructivism'?
 - e) Discuss the 'language of Mathematics'.
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