

B.Ed. Semester-II Examination 2017
Pedagogical Knowledge of School Subject A: Mathematics
Course – B.Ed. 124

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. What are the major historical developments in mathematics with special reference to Indian Mathematics? List the major contribution of Ramanujam to the field of mathematics. 8+7=15
2. What is the importance of planning instruction? Prepare a lesson plan for 40 min duration class on any topic of your choice from class VIII of secondary level. 3+12=15
3. Discuss the concept of mathematics laboratory. Prepare a blue print for setting up a mathematics laboratory in school. 5+10=15
4. Discuss in detail the Formative and Summative Assessment of learner achievement. 15

Group – B

5. Answer any six questions:

6×5=30

- (a) Discuss the 'Axiomatic Nature' of Mathematics. 5
- (b) Write any five contributions of Pythagoras in the field of mathematics. 5
- (c) Discuss the 'Problem solving Approach' of learning in detail. 5
- (d) Differentiate between cooperative and collaborative learning. 5
- (e) Describe the 'Dale cone of Experience' in brief. 5
- (f) What is the difference between 'Diagnostic Test' and 'Achievement Test'? 5
- (g) What is the meaning and purpose of 'Evaluation'? 5
- (h) Differentiate between Test Books and Reference Books. 5

Group – C

6. Attempt all the questions:

5×2=10

- (a) Write any two contribution of 'Aryabhata'. 2
 - (b) What do you mean by 'unit planning'? 2
 - (c) What do you mean by 'constructivism'? 2
 - (d) Explain in brief the 'Analysis and Synthesis'. 2
 - (e) Differentiate between Approach, Method and Techniques of teaching. 2
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