

B.Ed. Examination 2018
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. Describe the major contributions of Indian Mathematics with special reference to 'Aryabhatta' and 'Bhaskaracharya'. 7.5+7.5
 2. What is basic difference between behaviouristic planning of instruction and constructivist planning of instruction? Prepare a lesson plan for 40 min. duration on any topic of your choice from class IX. 5+10
 3. Discuss the need for a Mathematics laboratory in secondary school. Prepare a blue print for setting up a functional Mathematics laboratory in school. 5+10
 4. Discuss in detail 'Norm Referenced Test' and 'Criterion Referenced Test'. 7.5+7.5

Group-B

5. Attempt **any six** of the following : 5×6=30
- a) Discuss 'Postulates' and its significance in mathematics. 5
 - b) Describe the contribution of Ramanayam' in the field of Indian Mathematics. 5
 - c) Discuss the 'Zone of Proximal Development'. 5
 - d) Explain 'Collaborative learning' in brief. 5
 - e) Describe the 'Dale cone of Experience' in brief. 5
 - f) Prepare a blue print of 'Achievement Test'. 5
 - g) What is the meaning and purpose of 'Assessment' in secondary classes? 5
 - h) Write any five major characteristics of 'C.C.A.'. 5

Group-C

6. Attempt all the questions : 2×5=10
- a) Write the nature of mathematics in brief. 2
 - b) What is meant by 'Constructivism'? 2
 - c) How 'Assessment' is different from 'Evaluation'? 2
 - d) Define 'Project Method', 2
 - e) Write the basic steps of 'Problem Solving Method'. 2
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