

Reg. No. :

Name :

Second Semester B.Ed. Degree Examination, April 2020

**EDU-09.7 : CURRICULUM AND RESOURCES IN DIGITAL ERA :
MATHEMATICS EDUCATION**

(2019 Admission)

Time : 2 Hours

Max. Marks : 50

Instructions : Answer **all** questions from Part A, Part B and Part C, **four** questions from Part D and **one** question from Part E.

PART – A

Select the most appropriate answer from the multiple choices given for (Qns 1-5)

1. SMP stand for

(a) Scottish Mathematics Program

(b) Scottish Mathematics Project

(c) School Mathematics Program

(d) School Mathematics Project

2. Paulo Friere is associated with

(a) Constructivist learning

(b) Problem Based Learning

(c) Critical Pedagogy

(d) Reflective Learning

3. Experiential learning was introduced by

(a) John Dewey

(b) Lev Vygotsky

(c) Jerome S. Bruner

(d) David A Kolb

4. Tagging in Web 2.0 application is called
- (a) directory (b) taxonomy
(c) folksonomy (d) syndication
5. Darcy Dinnucci is associated with
- (a) Teacher Tube (b) M-Learning
(c) Web 2.0 (d) Edublog

(5 × 1 = 5 Marks)

PART – B

Answer **all** questions in **1** or **2** sentences each :

6. Write any two examples for the concept 'Ratio and Proportion' from real life situations.
7. Suggest any one topic suitable for research in Mathematics.
8. Define curriculum.
9. Expand SMSG.
10. Give any two situations where Mathematics can be learnt informally.

(5 × 1 = 5 Marks)

PART – C

Answer **all** questions in a paragraph each (11-15)

11. What are hot potatoes?
12. What do you mean by Reflective Learning?
13. What do you mean by Learning Management System?

14. Distinguish between topical and spiral approach to curriculum construction.
15. What are the advantages of a Mathematics Laboratory?

(5 × 2 = 10 Marks)

PART – D

Answer **any four** questions in **1** page each.

16. Briefly explain the steps involved in Action Research.
17. Briefly explain the various curriculum study groups.
18. Briefly explain the different informal contexts of learning Mathematics.
19. Discuss the importance of natural resources for teaching Mathematics in the present scenario.
20. Describe the scope of research in Mathematics.
21. Explain the various digital resources in the teaching of Mathematics.

(4 × 5 = 20 Marks)

PART – E

Answer **any one** question in **3** pages.

22. Explain the role of various agencies of curriculum development in the present scenario.
23. Critically evaluate the present school Mathematics curriculum at high school level with regard to the principles of curriculum organisation.

(1 × 10 = 10 Marks)