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C - 1718

Reg. No. :

Name :

Second Semester B.Ed. Degree Examination, April 2017
EDU 09.07 : CURRICULUM AND RESOURCES IN DIGITAL ERA :
MATHEMATICS EDUCATION
(2015 Admission)

Time : 2 Hours

Max. Marks : 50

PART - A

Answer **all** questions.

1. A curriculum is
 - a) Totality of experiences
 - b) Totality of classroom experiences
 - c) Subject taught
 - d) Syllabus of the course

2. Which of the following is not an advantage of M-learning ?
 - a) Individualized
 - b) Easy access
 - c) Less expensive
 - d) Face to face

3. 'Learning by doing' is emphasized in
 - a) SMP
 - b) SMSG
 - c) NMP
 - d) NCERT

4. Which of the following is not an on-line tool for Mathematics learning ?
 - a) Teacher blogs
 - b) Web 2.0 tools
 - c) Digital text books
 - d) CD's

5. The research done by practitioners for improving the performance
 - a) Fundamental research
 - b) Action research
 - c) Historical research
 - d) Experimental research

(5×1=5 Marks)

P.T.O.



PART – B

Answer in **one** word/sentence.

6. Continuity of the topic in consecutive years of learning is ensured in _____ type of curriculum organization.
7. A curriculum that satisfies the needs of the pupil is known as _____.
8. Name a not open source in Web 2.0 tools that enable one to create various types of interactive questions for the World Wide Web.
9. The type of research in which systematic analysis of past events is done to get an account of what happened in the past.
10. What type of problems are recommended in Problem Based Learning ?
(5×1=5 Marks)

PART – C

(Very Short Answer)

Answer **all** questions.

11. Write two thrust areas of research in mathematics education.
12. Mention the use of edublogs for a mathematics teacher.
13. List the steps in organizing a mathematics club.
14. Give two natural situations in which 'Symmetry' is involved.
15. What are the advantages of reflective learning ?
(5×2=10 Marks)

PART – D

(Short Answer)

Answer **any 4** questions.

16. Explain the concept of 'Correlation' in curriculum construction with suitable examples.
17. Describe the logical and psychological approaches of curriculum organization.



- 18. How can a teacher encourage students to use mathematics library effectively ?
- 19. Explain the procedure of construction and implementation of a teaching aid that can be used for teaching 'Total surface area of a pyramid'.
- 20. Explain briefly any two Web 2.0 tools with its application in mathematics learning.
- 21. Why researches are needed in mathematics education ? **(4×5=20 Marks)**

PART – E

(Essay)

Answer **any one** question.

- 22. Give a brief account of online resources that can be used in mathematics education.
- 23. Bring out the relevance of constructivist learning in mathematics. **(1×10=10 Marks)**