



Reg. No. : .....

Name : .....

**Second Semester B.Ed. Degree Examination, April 2019**  
**(2015 Scheme)**  
**EDU 09.7 : CURRICULUM AND RESOURCES IN DIGITAL ERA :**  
**MATHEMATICS EDUCATION**

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. Expansion of NMP is
  - a) National Mathematics Project
  - b) Nuffield Mathematics Project
  - c) Natural Mathematics Project
  - d) Null Mathematics Project
  
2. This is not true about Mathematics Laboratory
  - a) Displace Mathematical information
  - b) Avenue for Mathematical experimentation
  - c) Easy access to mathematical materials
  - d) It is threatening and causes for anxiety for students
  
3. Mathematical field trips do not
  - a) build shared understanding
  - b) reinforce learning
  - c) bring boredom among learners
  - d) develop student's ability to cope with relevant problems



4. Web 2.0 is the term coined by
  - a) Tim O' Reilly
  - b) Daley dougherty
  - c) Darcy dinnucci
  - d) Tim O'Reilly ad Daley Dougherty
5. Control group is a term used in
  - a) Historical research
  - b) Experimental research
  - c) Survey research
  - d) Descriptive research

(5×1=5 Marks)

PART – B

Answer **all** questions in **one** or **two** sentences (Qns. 6 – 10) :

6. Write any two examples for the concept 'congruence' from community.
7. Name any two e-learning resources.
8. Give any two features of child centred curriculum.
9. Suggest any one topic suitable for research in Mathematics.
10. What is the difference between community based resources and man made resources ?

(5×1=5 Marks)

PART – C

Answer **all** questions in a paragraph **each** (Qns. 11 – 15) :

11. What do you mean by Problem Based Learning ?
12. How will you organise a field trip in Mathematics ?
13. Briefly illustrate any five natural resources that can be utilised for teaching Mathematical concepts.
14. How are hot potatoes useful in the teaching of Mathematics ?
15. Distinguish between topical and spiral approach to curriculum construction.

(5×2=10 Marks)



PART – D

Answer **any four** questions in **one page each** (Qns. 16 – 21) :

16. Explain how can a Mathematics library be effectively utilised.
17. Explain the various informal contexts of learning Mathematics.
18. How will you conduct Action Research ?
19. Explain the constructivist learning in Mathematics.
20. Briefly explain the various digital resources in the teaching of Mathematics.
21. Describe the common features found in most of the learning management systems. **(4×5=20 Marks)**

PART – E

Answer **any one** question in **three** pages :

22. Explain the role of various curriculum study groups.
  23. What are the modern trends in the construction of Mathematics curriculum ? **(1×10=10 Marks)**
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