



Reg. No. :

Name :

Second Semester B.Ed. Degree Examination, May 2016
(2015 Admn. Onwards)
EDU – 10.07 : TECHNO-PEDAGOGIC CONTENT KNOWLEDGE
ANALYSIS : MATHEMATICS

Time : 2 Hours

Max. Marks : 50

PART – A

Answer **all** questions :

1. According to Bruner, a concept must have
 - a) Name
 - b) Rule
 - c) Examples
 - d) All the above
 2. Which is NOT related to programmed learning ?
 - a) Immediate feed back
 - b) Rote learning
 - c) Self pace
 - d) Small steps
 3. MacTutor is a website that helps in
 - a) Mathematical calculations
 - b) Solving higher order problem
 - c) Finding historical and biographical information in mathematics
 - d) Analysing data
 4. A pure and applied mathematics e-journal
 - a) Junior Mathematician
 - b) Mathlab
 - c) Edumath
 - d) IEJPAM
 5. Which among the following is NOT a type of educational software ?
 - a) Graphics
 - b) Tutorial
 - c) Simulation
 - d) Drill and practice
- (5×1=5 Marks)**

P.T.O.

**PART – B**

Answer in **one word/sentence** :

6. Each one in a _____ network communicate with each other.
7. Remote server is used for storage, management and processing of data in _____
8. What is MOOC ?
9. Name an instructional Design Model.
10. Write the principle behind presenting a subject matter as short learning objects. **(5×1=5 Marks)**

PART – C

(Very short answer)

Answer **all** questions :

11. Write a short note on IT@ School Project.
12. What is a Teaching Model ?
13. Give a brief account of Mathematics teaching in any one developed country.
14. How is networking helpful in teaching and learning ?
15. Enumerate the relevance of TPCK. **(5×2=10 Marks)**

PART – D

(Short answer)

Answer **any 4** questions :

16. What is a Blog ? Bring out its significance in mathematics teaching.
17. What are the principles of Programmed learning ?
18. Write the phases of Concept Attainment Model.



19. Select any one topic from secondary school Mathematics text book and give a TPCK based content analysis for the same.
20. Differentiate branched and linear programming.
21. Explain the concept of E-Twinning. **(4×5=20 Marks)**

PART – E

(Essay)

Write any 1 question :

22. Technology cannot replace a teacher. But a teacher without technology will be replaced". Do you agree ? Justify your answer.
23. Select an appropriate topic from secondary school Mathematics and write a lesson plan based on Inquiry Training Model. **(1×10=10 Marks)**
