A – 2931

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)