C – 1730

Reg. No. : ....

Name : ....

Second Semester B.Ed. Degree Examination, April 2017

EDU 10.07 : TECHNO – PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS : MATHEMATICS

(2015 Admission)

Time : 2 Hours

Max. Marks : 50

PART – A

Answer **all** questions.

1. Geogebra is
   a) a proprietary software
   b) a search engine
   c) a blog
   d) an open source software

2. Which one is not related to a model of teaching ?
   a) Phases
   b) Focus
   c) Evaluation
   d) Effect

3. Remediation is possible in
   a) Linear Programming
   b) Branched Programming
   c) Direct instruction
   d) Mathetics

4. _____ is an example of LMS.
   a) M.S. Excel
   b) MOODLE
   c) LINUX
   d) M.S. Word

5. Which of the following is an example for Mathematics discussion forum ?
   a) Mathforum .org
   b) Mathblog
   c) Mathlab
   d) formath .org

(5×1=5 Marks)

P.T.O.

PART – B

Answer **one** word/sentence.

6. Write any one major objective of IT(a) school project.

7. Name an online mathematics journal.

8. What is the advantage of multisensory approach to teaching ?

9. What is SCORM ?

10. In cloud computing, _____ is used for storage, management and processing of data.

(5×1=5 Marks)

PART – C (**Very Short Answer**)

Answer **all** questions.

11. Write the instructional effects of inquiry training model.

12. Differentiate online and offline resources.

13. Mention the different families of models of teaching.

14. 'e-learning reaches the unreached'. How ?

15. Write the role of a teacher as a techno-pedagogue.

(5×2=10 Marks)

PART – D (**Short Answer**)

Answer **any 4** questions.

16. Select any one self instructional strategy for Mathematics learning and evaluate its advantages over traditional method of teaching.

17. Select a topic from 8th Standard Mathematics text book and analyse it based on TPCK.

18. How does networking help in Mathematics learning ?

19. Write a short note on E-Twinning.

20. What are the advantages of Blogs ? Name any two blogs that can be used by a Mathematics teacher.

21. Describe the components of a teaching model.

(4×5=20 Marks)

PART – E (**Essay**)

Answer **any 1** question.

22. Select an appropriate topic from school Mathematics text book and write a lesson plan based on Concept Attainment Model.

23. Compare the salient features of Mathematics education in major developed and developing countries.

(1×10=10 Marks)