



(Pages : 2)

B – 2320

Reg. No. :

Name :

First Semester B.Ed. Degree Examination, December 2016
EDU 05.7 : PEDAGOGIC CONTENT KNOWLEDGE ANALYSIS –
MATHEMATICS
(2015 Admn. Onwards)

Time : 2 Hours

Max. Marks : 50

PART – A

Answer all questions :

1. Which of these training techniques review a videotape of the lesson after each session ?
 - a) Peer tutoring
 - b) Micro teaching
 - c) Supervised study
 - d) Programmed learning
2. Which is not considered as a component of Pedagogic analysis ?
 - a) Division of content of selected unit into subunits
 - b) Writing the previous knowledge
 - c) Framing questions
 - d) Writing the instructional objectives
3. Effective teaching is
 - a) Attainment of learning objectives
 - b) Providing appropriate learning experiences
 - c) Having a clear idea about what is to be taught
 - d) All of the above
4. Planning of the lesson helps to
 - a) Structure your lessons
 - b) Provide confidence
 - c) Address a whole range of student needs
 - d) All of the above
5. Modern technological gadget that supports a learner in transacting information is
 - a) Interactive white board
 - b) Teaching manual
 - c) Textbooks
 - d) Charts

(5×1=5 Marks)

P.T.O.

B - 2320



PART - B

Answer **all** questions in **one** word/sentence.

6. A figure having 7 sides and 7 angles is called
7. If the first term of an arithmetic progression is 6 and its common difference is 3, then its 50th term is
8. Any one specification for the domain 'Knowing' is
9. _____ aids provide direct learning experience to the students.
10. _____ is the most simplest measure of central tendency. (5×1=5 Marks)

PART - C

Answer **all** questions in **two** or **three** sentences **each**.

11. What are improvised aids ?
12. Write any two methods by which arithmetic skills of the learner can be improved.
13. What are the significance of writing a year plan ?
14. What do you mean by digital skills ?
15. Explain in brief the 'skill of set induction'. (5×2=10 Marks)

PART - D

Answer **any 4** questions **not** exceeding a page and a half.

16. Differentiate between a behaviourist lesson plan format from constructivist format.
17. List all the curricular objectives in the unit 'Arithmetic Sequences' in Std. X.
18. What learning experience will you provide to introduce 'Negative numbers' ?
19. Why do you think the use of 'digital skills' are inevitable for a teacher educator ?
20. What are learning aids ? Explain the various types of learning aids that can be employed for teaching mathematics.
21. What is microteaching ? Explain any two microteaching skills. (4×5=20 Marks)

PART - E

Answer **any 1** question **not** exceeding **3** pages.

22. Prepare a lesson plan for the unit 'Polygons' using constructivist format.
23. Resources in teaching and learning mathematics (Learning aids) helps to reduce the abstraction of mathematical concepts - Justify your answer. (1×10=10 Marks)