

(Pages : 3)

H – 2748

Reg. No. :

Name :

First Semester B.Ed. Degree Examination, November 2019

**EDU 05. 7 : PEDAGOGIC CONTENT KNOWLEDGE
ANALYSIS-MATHEMATICS**

(2019 Admission)

Time : 2 Hours

Max. Marks : 50

PART – A

Select the most appropriate answer from the bracket (1-5)

1. Which is the longest chord of a Circle?
(a) Radius (b) Diameter
(c) Arc (d) Sector
2. The highest Category of Cognitive process in Revised Bloorris Taxonomy is
(a) Creating (b) Applying
(c) Remembering (d) Evaluating
3. Which among the following is not a parallelogram?
(a) Square (b) Rectangle
(c) Rhombus (d) Trapezium

P.T.O.

4. Which among the following is not a HOT skill?
(a) Critical Thinking (b) Problem Solving
(c) Evaluation (d) Remembering
5. Which of the following graph uses 'Cumulative Frequency'?
(a) Histogram (b) Pie-Chart
(c) Ogives (d) Frequency Polygon

(5 × 1 = 5 Marks)

PART – B

Answer **all** questions in one word or sentence (Question 6-10)

6. Mention any two specification, for 'Application'.
7. Write down any two advantages of using an Interactive White Board.
8. Write any two components of a lesson plan.
9. Name any two Constructivist thinkers.
10. What is an improvised aid?

(5 × 1 = 5 Marks)

PART – C

Answer **all** questions in two or three sentences each (Question 11-15)

11. Write any four uses of graphs.
12. Which are the major components of 'Skill of Stimulus-Variation'?
13. What are the steps in Content analysis?
14. Write down any four advantages of using 'Video Clippings' in the teaching of Mathematics.
15. What are digital skills?

(5 × 2 = 10 Marks)

PART – D

Answer **any four** questions.

16. List all the curricular objectives of the topic 'Circles' in Standard X.
17. What is PCK? Explain the steps involved in it.
18. Explain the learning experience that you will provide for introducing the topic 'Probability'.
19. Explain the different types of learning aids used in a mathematics Classroom.
20. Write any one enrichment activity for teaching the topic 'Co-ordinates'.
21. Describe five mathematical skills needed for effective teaching.

(4 × 5 = 20 Marks)

PART – E

Answer **any one** from the following.

22. Prepare a lesson plan in Constructivist format for teaching a topic of your choice.
23. What do you mean by 'Planning of instrumentation? Explain the various stages of planning of instruction. Also mention the advantage and disadvantages of each stage of planning of instruction.

(1 × 10 = 10 Marks)
