

**Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University) Coimbatore — 641 043**

Continuous Internal Assessment Test I - February 2020

Semester II

Class :I B.Ed .

Major: Education & Spl.Edn

Time : 2 hours

Max.Marks : 60.

18BEDM12 /18BDSM12 - Methods and Techniques of Teaching Mathematics

Course Outcomes:

CO 1 : develop competency in teaching skills

CO 2: choose appropriate methodology for teaching mathematics

CO 3: analyse various techniques for teaching mathematics

CO4: plan daily lesson for teaching mathematics

CO 5: design yearly, term, monthly and weekly plan

CO 6 : construct auto instructional material for teaching mathematics

PART – A

5x1 = 5

Circle the correct answer:

1. Micro Teaching is a CO₁ K₂
 - a. Teaching technique
 - b. Training technique
 - c. Method of classroom instruction
 - d. Question answer method
2. A component of skill of questioning is CO₁ K₁
 - a. focusing
 - b. pausing
 - c. directing
 - d. refocusing
3. The branched programmed instruction was developed by CO₆ K₂
 - a. Gilbert
 - b. B.F. Skinner
 - c. Norman A.Crowder
 - d. Pressy
4. The capacity to initiate flexible interaction is given by CO₆ K₂
 - a. PLI
 - b. PSI
 - c. Mathetics
 - d. CAI
5. The method of teaching which places the students as far as possible in the attitude of discovery is given by CO₂ K₂
 - a. Lecture method
 - b. Demonstration method
 - c. Heuristic method
 - d. Problem Solving method

PART – B

Answer the following in one or two sentences

5 x 2= 10

6. Define Micro Teaching and mention the phases of micro teaching. CO₁ K₁
7. Draw the diagram of micro teaching cycle. CO₁ K₂
8. List any two advantages and disadvantages of programmed learning instruction. CO₆ K₂
9. What are the different modes of CAI CO₆ K₂
10. Name various teacher centred and student centred methods used in teaching mathematics CO₂ K₂

PART – C

Answer All the Questions

3 x 5 = 15

Answer should not exceed 200 words or one page

11. a. Explain the general procedure involved in micro teaching outlining different steps and activities. CO₁ K₂

- (or)
- | | | | | |
|------|----|---|-----------------|----------------|
| 11. | b. | Describe various components of skill of questioning. | CO ₁ | K ₂ |
| 12 | a. | Explain PSI with its advantages | CO ₆ | K ₄ |
| (or) | | | | |
| 12 | b. | Explain Mathetics with suitable illustration. | CO ₆ | K ₂ |
| 13 | a. | How far can Laboratory method be successfully employed in teaching Mathematics. | CO ₂ | K ₄ |
| (or) | | | | |
| 13 | b. | Illustrate and describe the Heuristic method of teaching | CO ₂ | K ₂ |
- PART – D**
- Answer All the Questions**
- 2 x 15 = 30**
- Answer should not exceed 1200 words or six pages**
- | | | | | |
|------|----|--|-----------------|----------------|
| 14. | a. | Define the skill of reinforcement. Write a suitable micro lesson plan for practising this skill in the subject mathematics | CO ₁ | K ₄ |
| (or) | | | | |
| 14. | b. | Explain Linear and Branched programmed instruction with suitable illustration. | CO ₅ | K ₂ |
| 15. | a. | What is project method? Discuss its various steps along with its merits and demerits in the teaching of mathematics. | CO ₂ | K ₄ |
| (or) | | | | |
| 15. | b. | Which is the best method of teaching mathematics according to your opinion? Support your preference with arguments. | CO ₂ | K ₅ |

No.of copies required : 60

Staff incharge : Mrs. S.Andal