



N. Srinivasan

Avinashilingam Institute for Home Science and Higher Education for Women

(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD)
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Bachelor of Education / B.Ed. Special Education (VI/VI) Degree Examination – May 2024
II Semester

Class : I B.Ed. **Time** : 3 Hours
School Subject : Mathematics and English **Max. Marks** : 100

Class : I B.Ed. Special Education
Specialization : Visual Impairment and Mathematics / Hearing Impairment and Mathematics

23BEDM12 / 23BDSM12 School Subject I: Methods and Techniques of Teaching Mathematics

Course Outcomes:

- CO1: Apply the micro teaching skills in teaching mathematics
CO2: Investigate the distinctive characteristics of various instructional methods suitable for teaching mathematics
CO3: Apply appropriate techniques and methods for teaching varied context and content in mathematics
CO4: Understand the different approaches in planning for instruction in teaching mathematics
CO5: Design different individualised instructional material for teaching mathematics

Part A **10 x 1 = 10**
Choose the Correct Answer

1. _____ first adopted micro-teaching technique. **CO1 K1**
a. Dwight W.Allen b. Dwight Wildo c. M. Chisel Brown d. Stanley John
2. Teacher's nods and smiles comes under **CO1 K2**
a. positive verbal reinforcement b. positive non-verbal reinforcement
c. negative verbal reinforcement d. negative non-verbal reinforcement
3. Project method was propounded by **CO2 K1**
a. H.E.Armstrong b. W.H.Kilpatrick c. A.M.Pang d. David
4. Heuristic method emphasis learning by **CO2 K2**
a. doing and discover b. understand c. gesture d. feeling
5. _____ does not belong to symposium. **CO3 K3**
a. Complex issues on the topic b. Multiple aspect under discussion
c. More time for discussion d. Chair person has to exert more centre
6. Learner's participation is made optimal and proactive in **CO3 K3**
a. Discussion b. Buzz session c. Brain storming d. Project
7. In _____ stage, the teacher can test the previous knowledge about same topic. **CO4 K4**
a. recitation b. exploration c. assimilation d. organisation
8. The logical steps followed by Herbartian lesson planning are **CO4 K2**
a. generalisation-preparation-presentation-association
b. preparation-presentation-association-generalisation
c. association-generalisation-presentation-preparation
d. generalisation-presentation-preparation-association
9. CAI is **CO5 K2**
a. Controlled Active Instruction b. Comparative Assisted Instruction
c. Comparative Active Instruction d. Computer Assisted Instruction
10. The other name for Keller plan is **CO5 K1**
a. personalized system of instruction b. personal system of instruction
c. performed system of instruction d. performed sequence of instruction

Part B

5 x 6 = 30

Answer ALL questions

Each answer should not exceed 400 words or two pages

- 11.a. Recall the steps involved in a micro teaching cycle. **CO1 K1**
(or)
11.b. Generalize the phases of micro teaching. **CO1 K2**
- 12.a. Trace the advantages of learner centered methods. **CO2 K2**
(or)
12.b. Describe the various steps are involved in a good project. **CO2 K2**
- 13.a. Prepare a note on collaborative learning. **CO3 K3**
(or)
13.b. Explain the salient features of conducting seminar in teaching of mathematics. **CO3 K2**
- 14.a. Write down any five specific objectives for teaching the lesson 'Volume of a cube'. **CO4 K4**
(or)
14.b. Explain the need for preparing lesson plans for classroom teaching of mathematics. **CO4 K2**
- 15.a. Mention the modes of CAI in mathematics. **CO5 K5**
(or)
15.b. State the principles of programmed learning. **CO5 K6**

Part C

5 x 12 = 60

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 16.a. Mention the components of the Skill of Set induction and prepare a micro lesson for the same. **CO1 K5**
(or)
16.b. Describe the components of skill of explaining. **CO1 K2**
- 17.a. Summarize the modern methods of teaching mathematics. **CO2 K5**
(or)
17.b. Name any two teacher centred instruction in the teaching of mathematics. **CO2 K3**
- 18.a. Explain the need for drill and assignment in mathematics. **CO3 K2**
(or)
18.b. Group work and Homework is a must in mathematics – Justify. **CO3 K6**
- 19.a. Organize the important characteristics of a good lesson plan. Write a lesson plan on any topic of your choice from IX standard mathematics. **CO4 K6**
(or)
19.b. Specify the aims and objectives of ABL in teaching of mathematics. **CO4 K5**
- 20.a. Bring any five advantages and process of developing CAI in the teaching of mathematics. **CO5 K2**
(or)
20.b. List the steps involved in Keller plan. **CO5 K1**
