

CERT-C-1007 CATM-01

**CERTIFICATE EXAMINATION -
FEBRUARY, 2023**

**Advanced Technological Applications in
Teaching**

ICT IN TEACHING MATHEMATICS

Time : 3 hours

Maximum marks : 70

SECTION A — (3 × 3 = 9 marks)

Answer any **THREE** questions out of five questions in
100 words.

All questions carry equal marks.

1. Define ICT in Education.
2. List out the Input Devices.
3. What is Multimedia?
4. Expand WWW, HTML and URL.
5. Define Evaluation?

SECTION B — (3 × 7 = 21 marks)

Answer any THREE questions out of five questions in 200 words.

All questions carry equal marks.

6. What are the Merits and Demerits of ICT?
7. Explain the different types of Viruses.
8. Discuss the role of teacher in ICT implication.
9. Differentiate Web-Based Teaching and Web-Based Learning.
10. Write a short note on effective communication in the classroom.

SECTION C — (4 × 10 = 40 marks)

Answer any FOUR questions out of Seven questions in 500 words.

All questions carry equal marks.

11. What are the types of communication? Explain.
12. Describe the types of computers?
13. What is Central Processing Unit? Explain in detail.

14. Explain the factors enabling growth of Digital Learning.
 15. Define E-Learning. Enumerate the importance and advantages of E-Learning.
 16. What is social media? How learning is improved by using social media in Education.
 17. Explain Assessment and Evaluation in ICT, with relevant illustration.
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CERT-C-1008 CATM-02

**CERTIFICATE EXAMINATION -
FEBRUARY, 2023**

**Advanced Technological Applications in Teaching
TEACHING OF MATHEMATICS**

Time : 3 hours

Maximum marks : 70

SECTION A — (3 × 3 = 9 marks)

Answer any **THREE** questions out of five questions in
100 words.

All questions carry equal marks.

1. Define Curriculum.
2. List the merits of Problem Solving method.
3. Write the uses of models for teaching mathematics.
4. What is Over Head Projector?
5. Write note on Observation.

SECTION B — ($3 \times 7 = 21$ marks)

Answer any THREE questions out of five questions in 200 words.

All questions carry equal marks.

6. What is Year Plan and Unit Plan? Explain.
7. What are the factors which affect methods of teaching? Explain any three.
8. Write short note on mathematics website.
9. Explain the advantages of advanced technologies in rural schools.
10. Describe the need for Evaluation.

SECTION C — ($4 \times 10 = 40$ marks)

Answer any FOUR questions out of Seven questions in 500 words.

All questions carry equal marks.

11. Describe the Aims and Objectives of teaching mathematics.
12. What are the stages of micro teaching process according to Passi? Describe.

13. Explain the various Non-media Resources available for teaching mathematics.
 14. Discuss the use of projected and non-projected resources in teaching mathematics.
 15. Enumerate on teaching of mathematics in rural schools with teacher mode approaches.
 16. Explain the various teachers made tests in detail.
 17. List out the levels of Diagnosis. Explain in detail.
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CERT-C-1009 CATM-03

**CERTIFICATE EXAMINATION —
FEBRUARY, 2023.**

**Advanced Technological Applications in
Teaching**

**MODERN TECHNIQUE IN TEACHING – LEARNING
PROCESS**

Time : 3 hours

Maximum marks : 70

PART A — (3 × 3 = 9 marks)

Answer any **THREE** questions out of Five questions in
100 words.

All questions carry equal marks.

1. What are the advantages of drill work?
2. Define the term “Audio”.
3. Write short note on Virtual Reality.
4. Define Mobile Learning.
5. List out the benefits of E-Portfolio.

PART B — ($3 \times 7 = 21$ marks)

Answer any THREE questions out of Five questions in 200 words.

6. How to conduct Quiz program? Explain.
7. Discuss the benefits of Video-Based Learning.
8. Explain the present uses of Virtual Reality.
9. Elucidate Online Learning, Digital Learning and E-Learning.
10. What is Data Mining? Explain.

PART C — ($4 \times 10 = 40$ marks)

Answer any FOUR questions out of Seven questions in 500 words.

11. Enumerate Play Way Methods of teaching mathematics in Traditional way.
12. Define Assignment. Explain the importance of assignment in teaching mathematics.
13. Describe the various Audio-Visual materials used for teaching of mathematics.

14. What is Augmented Reality Classrooms? Explain in detail.
 15. Discuss the uses of On-line examination in detail.
 16. Explain the advantages of Data Mining.
 17. What is Programme Instruction? Explain.
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