

2026

(FYUGP)

(4th Semester)

EDUCATION

(MINOR)

Paper : EDN M-4

(**Educational Technology**)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

*The figures in the margin indicate full marks
for the questions.*

(PART : A—OBJECTIVE)

(Marks : 25)

SECTION—I

(Marks : 15)

Choose the correct option :

1×15=15

1. The term 'technology' is derived from

- (a) Latin
- (b) Greek
- (c) French
- (d) German

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(Turn Over)

2. Which of the following is the first step in the systems approach to instructional design?
 - (a) Selecting teaching aids
 - (b) Defining learning objectives
 - (c) Evaluating learner performance
 - (d) Choosing the medium
3. Programmed learning is based on which of the following theories of learning?
 - (a) Cognitive theory
 - (b) Constructivist theory
 - (c) Operant conditioning theory
 - (d) Social learning theory
4. Conversion of ideas into symbols is called
 - (a) decoding
 - (b) feedback
 - (c) encoding
 - (d) noise
5. Teacher using gestures, facial expressions and body language is an example of
 - (a) verbal communication
 - (b) written communication
 - (c) formal communication
 - (d) non-verbal communication

6. The drill and practice method of computer-assisted instruction is best not used for
 - (a) reinforcing foundational skills
 - (b) enhancing fluency
 - (c) promoting mastery of previously learned content through repetition
 - (d) not to get immediate feedback
7. Which of the following techniques is often used in simulated teaching?
 - (a) Lecture
 - (b) Role play
 - (c) Interview
 - (d) Silent reading
8. A system is best defined as
 - (a) a single teaching method
 - (b) a group of unrelated activities
 - (c) an organized whole with interacting parts
 - (d) a classroom technique

9. Instructional system is mainly concerned with
- (a) administration of schools
 - (b) planning and organizing teaching-learning activities
 - (c) student discipline
 - (d) examination only
10. Programmed learning emphasizes
- (a) passive learning
 - (b) self-paced learning
 - (c) group learning
 - (d) rote learning
11. In programmed learning, content is presented in
- (a) large units
 - (b) random order
 - (c) small steps
 - (d) lecture form

12. Team teaching means
- (a) one teacher teaching many classes
 - (b) many teachers teaching one subject together
 - (c) students teaching students
 - (d) teaching with machines
13. Personalized system of instruction was developed by
- (a) B. F. Skinner
 - (b) Bloom
 - (c) Fred S. Keller
 - (d) Bruner
14. CAT allows learning to be
- (a) teacher-paced
 - (b) self-paced
 - (c) group-paced only
 - (d) rigid and fixed

(6)

15. In simulated teaching, the learners are usually

- (a) real students
- (b) teachers in training
- (c) parents
- (d) school Principals

SECTION—II

(Marks : 10)

Write notes on any *five* of the following : $2 \times 5 = 10$

1. Nature of educational technology
2. Meaning of communication
3. Systems approach to educational technology
4. Principles of programmed instruction
5. Team teaching
6. PSI
7. ICT

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(Continued)

(7)

(PART : B—DESCRIPTIVE)

(Marks : 50)

1. (a) Discuss the meaning and scope of educational technology. $4+6=10$

Or

- (b) Discuss the hardware and software approaches to educational technology. $5+5=10$

2. (a) What is communication process? Discuss the components of communication process. $3+7=10$

Or

- (b) Explain the mass-media approach to educational technology. 10

3. (a) Define systems approach. Explain its application in the field of education. $4+6=10$

Or

- (b) What do you understand by instructional system designing? Discuss the steps involved in instructional system designing. $4+6=10$

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(Turn Over)

4. (a) Define the term 'programmed learning'.
Compare between linear programming
and branching programming. $2+8=10$

Or

- (b) Differentiate between microteaching
and macroteaching. 10

5. (a) What is computer-assisted instruction?
Describe its implications in teaching-
learning process. $3+7=10$

Or

- (b) What is simulated teaching? Discuss
the steps involved and the uses of
simulated teaching. $2+(4+4)=10$
