

**2025**

**( FYUGP )**

**( 4th Semester )**

**EDUCATION**

**( MINOR )**

**Paper : EDN/M-4**

**( Educational Technology )**

**Full Marks : 75**

**Pass Marks : 40%**

**Time : 3 hours**

**( PART : B—DESCRIPTIVE )**

**( Marks : 50 )**

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

1. (a) Define the term 'educational technology'. Explain its nature. 4+6=10

Or

- (b) Elaborate the uses of hardware and software approaches for effective teaching. 10



2. (a) What is meant by communication?  
Explain the process of communication.

4+6=10

Or

- (b) What is classroom communication?  
Discuss mass media approach in  
teaching-learning process.

3+7=10

3. (a) What is meant by instructional system  
designing? Discuss the components in  
instructional system designing.

3+7=10

Or

- (b) Discuss systems approach to  
instructional process.

10

4. (a) What is programmed learning? Explain  
linear and branching programming.

3+7=10

Or

- (b) Explain team teaching. State the  
advantages and disadvantages of team  
teaching.

2+8=10

5. (a) Define simulated teaching. Discuss the  
uses of computerized assisted  
instruction.

3+7=10

Or

- (b) Discuss ICT (Information  
Communication Technology) in distance  
education.

10

★ ★ ★



**2025**

( FYUGP )

( 4th Semester )

**EDUCATION**

( MINOR )

Paper : EDN/M-4

**( Educational Technology )**

( PART : A—OBJECTIVE )

( Marks : 25 )

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

**SECTION—I**

( Marks : 15 )

**A.** Put a Tick (✓) mark against the correct answer in the brackets provided :

1×15=15

1. Who said, "Educational technology is the application of scientific process to men's learning conditions"?

(a) Thorndike ( )

(b) Skinner ( )

(c) Robert A. Cox ( )

(d) S. S. Kulkarni ( )



2. \_\_\_\_ is the application of physical sciences to education and teaching.

- (a) Systems approach ( )
- (b) Hardware approach ( )
- (c) Software approach ( )
- (d) Computer-aided approach ( )

3. 'Communication' is derived from

- (a) Greek word ( )
- (b) Latin word ( )
- (c) German word ( )
- (d) Persian word ( )

4. In the process of communication, which of the following arrangements is correct?

- (a) Sender, Encoding, Message, Channel, Receiver ( )
- (b) Sender, Message, Encoding, Channel, Receiver ( )
- (c) Sender, Receiver, Channel, Message, Encoding ( )
- (d) Sender, Encoding, Message, Receiver, Channel ( )

5. Which of the following is a verbal communication?

- (a) Voice ( )
- (b) Gesture ( )
- (c) Movement ( )
- (d) Facial expression ( )

6. Who defined 'system' as interrelated and interdependent elements?

- (a) Herbert ( )
- (b) R. L. Ackoff ( )
- (c) Edward ( )
- (d) Robert Davis ( )

7. The entire system as a \_\_\_\_ is called the systems approach.

- (a) unit ( )
- (b) part ( )
- (c) whole ( )
- (d) bit ( )



8. Team teaching is also known as
- (a) collaborative teaching ( )
  - (b) special teaching ( )
  - (c) group teaching ( )
  - (d) single teaching ( )
9. \_\_\_\_\_ is a scaled-down teaching encounter.
- (a) Macro-teaching ( )
  - (b) Micro-teaching ( )
  - (c) Team teaching ( )
  - (d) None of the above ( )
10. "Programmed learning is a systematic step-by-step, self-instructional programme" is said by
- (a) G. O. M. Leith ( )
  - (b) Jacob ( )
  - (c) Edgar Dale ( )
  - (d) Susan Marks ( )
11. \_\_\_\_\_ is a comprehensive teaching encounter.
- (a) Macro-teaching ( )
  - (b) Micro-teaching ( )
  - (c) Team teaching ( )
  - (d) None of the above ( )

12. Branching programming was developed by
- (a) B. F. Skinner ( )
  - (b) Norman A. Crowder ( )
  - (c) Gilbert ( )
  - (d) E. L. Thorndike ( )
13. The role playing is developed by using
- (a) micro-teaching ( )
  - (b) simulated teaching ( )
  - (c) interaction analysis ( )
  - (d) group teaching ( )
14. Which one is the full form of CAI in education?
- (a) Computer Area Instruction ( )
  - (b) Computer-Assisted Instruction ( )
  - (c) Computer-Accumulated Instruction ( )
  - (d) None of the above ( )
15. Personalized System of Instruction (PSI) is also known as
- (a) Skinner plan ( )
  - (b) Keller plan ( )
  - (c) Thorndike plan ( )
  - (d) All of the above ( )



## SECTION—II

( Marks : 10 )

B. Write on any five of the following :

2×5=10

## 1. Functions of educational technology

## 2. Components of communication process



3. Instructional system

4. Limitations of systems approach



5. Principles of programmed instruction

6. Features of PSI



7. Concept of ICT

\*\*\*