



**Ba/EDN/M-4**

**2 0 2 5**

**( 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.

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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.

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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.

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**EDUCATION**

( MINOR )

Paper : EDN/M-4

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( 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

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