

2 0 2 5

(NEP—2020)

(5th Semester)

EDUCATION (MAJOR1)

(Educational Technology)

Full Marks : 75

Time : 3 hours

The figures in the margin indicate full marks for the questions

(SECTION : A—OBJECTIVE)

(Marks : 10)

Tick (✓) the correct answer in the brackets provided :

1×10=10

1. Educational Technology is based on

- (a) research and studies ()
- (b) students ()
- (c) interest ()
- (d) teachers ()

2. In systems approach, the instructional technology is broken down into

- (a) two main parts ()
- (b) three main parts ()
- (c) four main parts ()
- (d) seven main parts ()

3. The term 'communication' is derived from which Latin word?
- (a) Comunae () (b) Communar ()
 (c) Comune () (d) Communis ()
4. Facial expressions come under
- (a) verbal communication ()
 (b) non-verbal communication ()
 (c) written communication ()
 (d) emotional communication ()
5. In branching programmed learning, after an incorrect response, the student is sent to
- (a) next frame () (b) main frame ()
 (c) linear frame () (d) remedial frame ()
6. Cognitive domain is concerned with the development of
- (a) emotional capability ()
 (b) intellectual capability ()
 (c) physical capability ()
 (d) social capability ()
7. The process of systematically planning, creating and delivering educational content and experiences is called
- (a) instructional design ()
 (b) educational technology ()
 (c) teaching technology ()
 (d) systematic technology ()
8. A self-learning technique which emphasizes individualization of instruction is
- (a) Flander's Interaction Model ()
 (b) Keller Plan ()
 (c) personalized systematic instruction ()
 (d) informatics ()
9. The use of technology to improve the teaching and learning process is called
- (a) linear learning () (b) proctors ()
 (c) informatics () (d) branching ()

10. The term 'artificial intelligence' was coined by

- (a) Alan Mathison Turing ()
- (b) Kevin Systrom ()
- (c) Jeanne Clare ()
- (d) John McCarthy ()

(SECTION : B—SHORT ANSWERS)

(Marks : 15)

Write notes on *five* of the following, taking at least *one* from each Unit : 3×5=15

UNIT—I

1. Any three characteristics of Educational Technology
2. Hardware approach

UNIT—II

3. Significance of communication
4. Verbal communication

UNIT—III

5. Merits of programmed learning
6. Any three components of Instructional System Design

UNIT—IV

7. Personalized System of Instruction (PSI)
8. Computer-Assisted Instruction (CAI)

(SECTION : C—DESCRIPTIVE)

(Marks : 50)

Answer *five* of the following questions, taking at least *one* from each Unit : $10 \times 5 = 50$

UNIT—I

1. Define the term Educational Technology. Discuss in detail the need and importance of Educational Technology. 3+7=10
2. Define software approach. Elaborate in detail the impact of software approach in teaching-learning process. 3+7=10

UNIT—II

3. What is communication? Explain the various characteristics of communication. 3+7=10
4. Define non-verbal communication. Elaborate the barriers for effective communication. 3+7=10

UNIT—III

5. What is Bloom's taxonomy of educational objectives? Discuss the psychomotor domain of Bloom's taxonomy of educational objectives. 3+7=10
6. What is Flander's Interaction Analysis? Explain the need and importance of Flander's Interaction Analysis. 3+7=10

UNIT—IV

7. Define the term 'informatics'. Discuss its merits and demerits. 2+4+4=10
8. Define Artificial Intelligence. Discuss the role of Artificial Intelligence in teaching and learning. 3+7=10
