

M.Ed. Two Year Programme

IV SEMESTER TEST PAPERS

April 2017.

Name Course: 14-Theme Based Specialisation course-III

Subject Educational Technology.

Address _____

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ST. ANN'S COLLEGE OF EDUCATION, MANGALORE.
(AUTONOMOUS)
M.Ed. Two Year Programme

Fourth Semester Test – April 2017

Course - 14 : Theme Based Specialisation Course - III
Educational Technology

Time : 3 Hours

Date : 22-04-2017

Max. Marks : 70

Note : There are two sections in the question paper. Both the sections are compulsory.

PART – I

Section A

Note : Answer the following questions in about three pages each.

- 1 a) i) Explain the nature and objectives of Educational Technology.
ii) Discuss the Evolution of Educational Technology. (5+5)
[or]
- b) i) Explain the Characteristics and applications of Instructional Technology.
ii) Discuss any two Models of Communication. (5+5)
- 2 a) i) Explain the classification of media material.
ii) Discuss the different types of Language Laboratories with its merits and disadvantages. (4 +6)
[or]
- b) i) Explain the different types of Teaching Models.
ii) Discuss the syntax of Concept Attainment Model with Illustration. (4 +6)
- 3 a) i) Explain the need and significance of ICT.
ii) Discuss the essentials of effective power point presentation. (5+5)
[or]
- b) i) Explain the TPACK framework.
ii) Discuss the E-learning perspectives and modalities. (5+5)
- 4 a) i) Explain the meaning and principles of Multimedia Learning.
ii) Discuss the stages in the development of Multimedia Material. (4 +6)
[or]
- b) i) Explain the meaning and types of Educational Software Packages.
ii) Discuss the uses of multi media learning. (5+5)

Section B

Note : Answer any **Six** of the following questions in about a page each.(5 x 6=30)

- 5 a) Explain the strategies of Effective Communication.
- b) Describe any one approach to Educational Technology.
- c) Discuss Dale's Cone of experience and its application to Education.
- d) Explain the meaning and benefits of Digital Media.
- e) Discuss the use of audio-visual media at Secondary and Senior Secondary Level.
- f) Explain the Concept and values of Computer Adaptive Testing.
- g) Discuss the elements of Multimedia.
- h) Explain the steps in the development of an Educational Software Package.

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ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)
M.Ed. Two Year Programme

Fourth Semester Test – April 2018

MES553 : Theme Based Specialisation Course - III
Educational Technology

Time : 3 Hours

Date : 25-04-2018

Max. Marks : 70

Note : 1. Answer Part – I and Part – II questions on separate Answer Sheets.
2. There are two sections in Part I and Part II in the question paper. Both are compulsory.

ಸೂಚನೆ : ೧. ಭಾಗ - I ಮತ್ತು ಭಾಗ - II ಪ್ರಶ್ನೆಗಳಿಗೆ ಪ್ರತ್ಯೇಕ ಉತ್ತರ ಪತ್ರಿಕೆಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

೨. ಪ್ರಶ್ನೆಪತ್ರಿಕೆಯಲ್ಲಿ ಎರಡೂ ಭಾಗದಲ್ಲಿ ಎರಡು ವಿಭಾಗಗಳಿವೆ. ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸುವುದು ಕಡ್ಡಾಯ.

PART – I/ಭಾಗ - I
Section A/ವಿಭಾಗ ಎ

Note : Answer the following questions in about three pages each.

ಸೂಚನೆ : ಈ ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ತಲಾ ಮೂರು ಪುಟಗಳಷ್ಟು ಉತ್ತರಿಸಿ.

1a) i) Explain the meaning and forms of Educational Technology.

ii) Discuss various approaches of Educational Technology.

i) ಶೈಕ್ಷಣಿಕ ತಂತ್ರಜ್ಞಾನದ ಅರ್ಥ ಹಾಗೂ ನಮೂನೆಗಳನ್ನು ವಿವರಿಸಿ.

ii) ಶೈಕ್ಷಣಿಕ ತಂತ್ರಜ್ಞಾನದ ವಿವಿಧ ಕ್ರಮಗಳನ್ನು ಚರ್ಚಿಸಿ.

(4+6)

[or/ಅಥವಾ]

b) i) Explain the functions of Communication.

ii) Discuss any two Models of Communication.

i) ಸಂವಹನದ ಕಾರ್ಯಗಳನ್ನು ವಿವರಿಸಿ.

ii) ಯಾವುದಾದರೂ ಎರಡು ಸಂವಹನ ಮಾದರಿಗಳನ್ನು ಚರ್ಚಿಸಿ.

(4+6)

Section B/ವಿಭಾಗ ಬಿ

Note : Answer any **Four** of the following questions in about a page each. (4x5=20)

ಸೂಚನೆ : ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಆರು ಪ್ರಶ್ನೆಗಳಿಗೆ ತಲಾ ಒಂದು ಪುಟದಷ್ಟು ಉತ್ತರಿಸಿ.

2 a) Explain any five functions of CIET.

ರಾಷ್ಟ್ರೀಯ ಶೈಕ್ಷಣಿಕ ತಂತ್ರಜ್ಞಾನ ಸಂಸ್ಥೆಯ ಕಾರ್ಯಗಳನ್ನು ವಿವರಿಸಿ.

b) Discuss the advantages and limitations of Computer Adaptive Testing (CAT).

CAT ಯ ಲಾಭ ಹಾಗೂ ದೋಷಗಳನ್ನು ಚರ್ಚಿಸಿ.

c) Analyse Shannon and Weaver's Model of Communication.

ಶ್ಯಾನ್ನ್ ಹಾಗೂ ವೀವರ್‌ರವರ ಸಂವಹನ ಮಾದರಿಯನ್ನು ವಿಶ್ಲೇಷಿಸಿ.

d) Discuss the evolution of Educational Technology.

ಶೈಕ್ಷಣಿಕ ತಂತ್ರಜ್ಞಾನದ ಉಗಮವನ್ನು ಚರ್ಚಿಸಿ.

e) Explain the features of 'IT @ school' programme.

'ಶಾಲೆಗಳಲ್ಲಿ ಸಂವಹನ ತಂತ್ರಜ್ಞಾನದ ಗುಣಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.

PART – II/ಭಾಗ - II

Section A/ವಿಭಾಗ ಎ

Note : Answer the following questions in about three pages each.

ಸೂಚನೆ : ಈ ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ ತಲಾ ಮೂರು ಪುಟಗಳಷ್ಟು ಉತ್ತರಿಸಿ.

- 1 a) i) Explain the meaning of Audio Visual Education and the factors affecting the Selection of Media.
ii) Discuss the Educational applications of Dale's Cone of Experience.
i) ದೃಕ್ -ಶೃವಣದ ಅರ್ಥ ಹಾಗೂ ಮಾಧ್ಯಮವನ್ನು ಆರಿಸುವಲ್ಲಿ ಪರಿಣಾಮ ಬೀರುವ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿ.
ii) ಡೇಲರ್ ಅನುಭವ ಶಂಕುವಿನ ಶೈಕ್ಷಣಿಕ ಅನ್ವಯಗಳನ್ನು ಚರ್ಚಿಸಿ. (5+5)
[or/ಅಥವಾ]
- b) i) Explain the different types of Language Laboratories.
ii) Discuss the Application of Inquiry Training Model for a topic of your choice.
i) ಭಾಷಾ ಪ್ರಯೋಗಾಲಯದ ವಿವಿಧ ವಿಧಗಳನ್ನು ವಿವರಿಸಿ.
ii) ನಿಮ್ಮ ಆಯ್ಕೆಯ ಒಂದು ವಿಷಯಕ್ಕೆ ವಿಚಾರಣಾ ತರಬೇತಿ ಮಾದರಿಯ ಅನ್ವಯವನ್ನು ಚರ್ಚಿಸಿ. (5+5)
- 2 a) i) Explain the essentials of Effective Powerpoint Presentation.
ii) Describe TPACK frame work.
i) ಪರಿಣಾಮಕಾರಿ ಇ-ಪ್ರಸ್ತುತೀಕರಣದ ಪ್ರಮುಖ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿ.
ii) ಟಿಪ್ಯಾಕ್ (TPACK) ಮಾದರಿಯನ್ನು ವರ್ಣಿಸಿ. (4+6)
[or/ಅಥವಾ]
- b) i) Explain the E-learning methods.
ii) Discuss the features and role of Learning Management System (LMS) in Education.
i) ಇ-ಕಲಿಕೆಯ ವಿಧಾನಗಳನ್ನು ವಿವರಿಸಿ.
ii) ಕಲಿಕಾ ನಿರ್ವಹಣಾ ವ್ಯವಸ್ಥೆಯ ವೈಶಿಷ್ಟ್ಯಗಳು ಹಾಗೂ ಶಿಕ್ಷಣದಲ್ಲಿ ಅದರ ಪಾತ್ರವನ್ನು ಚರ್ಚಿಸಿ. (4+6)
- 3 a) i) Explain the Elements of Multi media.
ii) Enumerate the principles of Multi media learning and explain the stages of development of Multi media Material.
i) ಬಹುಮಾಧ್ಯಮದ ಅಂಶಗಳನ್ನು ವಿವರಿಸಿ.
ii) ಬಹುಮಾಧ್ಯಮ ಕಲಿಕೆಯ ತತ್ವಗಳನ್ನು ತಿಳಿಸಿ ಹಾಗೂ ಬಹುಮಾಧ್ಯಮ ಕಲಿಕಾ ಸಾಮಗ್ರಿಯ ತಯಾರಿಕೆಯ ಹಂತಗಳನ್ನು ವಿವರಿಸಿ. (3+7)
[or/ಅಥವಾ]
- b) i) Explain the types of E-content.
ii) Explain the method of utilizing Mobile Technologies and their benefits for classroom learning.
i) ಇ-ವಿಷಯದ ವಿಧಗಳನ್ನು ವಿವರಿಸಿ.
ii) ತರಗತಿ ಕಲಿಕೆಯಲ್ಲಿ ಮೊಬೈಲ್ ತಂತ್ರಜ್ಞಾನವನ್ನು ಬಳಸುವ ವಿಧಾನ ಹಾಗೂ ಲಾಭಗಳನ್ನು ಚರ್ಚಿಸಿ. (4+6)

Section B/ವಿಭಾಗ ಬಿ

Note : Answer any **Two** of the following questions in about a page each. (2x5=10)
ಸೂಚನೆ : ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ತಲಾ ಒಂದು ಪುಟದಷ್ಟು ಉತ್ತರಿಸಿ.

- 4 a) **Discuss the classification of Media Material.**
ಮಾಧ್ಯಮ ಸಾಮಗ್ರಿಗಳ ವಿಂಗಡಣೆಯನ್ನು ಚರ್ಚಿಸಿ.
- b) **Explain the different perspectives of E-learning.**
ಇ-ಕಲಿಕೆಯ ವಿವಿಧ ದೃಷ್ಟಿಕೋನಗಳನ್ನು ವಿವರಿಸಿ.
- c) **Explain the development of E-content using ADDIE model.**
ADDIE ಮಾದರಿಯನ್ನೊಳಗೊಂಡ ಇ-ವಿಷಯದ ಅಭಿವೃದ್ಧಿಯನ್ನು ವಿವರಿಸಿ.

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ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)
M.Ed. Two Year Programme

Fourth Semester Test – April 2019

MES553 : Theme Based Specialisation Course - III
Educational Technology

Time : 3 Hours
Date :13-04-2019

Max. Marks : 70

Note : 1. Answer Part – I and Part – II questions on separate Answer Sheets.
2. There are two sections in Part I and Part II in the question paper. Both are compulsory.

PART – I
Section A

Note : Answer the following questions in about three pages each.

- 1a) i) Define Educational Technology and enumerate its Objectives.
ii) Discuss the evolution of Educational Technology. (4+6)
[or]
- b)i) Explain the elements of Communication.
ii) Describe any two Models of Communication. (5+5)
- 2a) i) Explain the functions of Educational Multi-media Research Centre (EMMRC).
ii) Discuss the uses of IT @ School Project. (6+4)
[or]
- b)i) Enumerate the components of ICT and discuss its significance.
ii) Explain the advantages and limitations of Computer Adaptive Testing (CAT). (6+4)

Section B

Note : Answer any **Two** of the following questions in about a page each.(2x5=10)

- 3 a) Discuss the applications of Instructional Technology.
- b) Analyse the strategies for effective communication.
- c) List out the advantages and limitations of optical mark reader.
- d) Describe the distinction between hardware and software approaches.

PART – II

Section A

Note : Answer the following questions in about **three** pages each.

- 1 a) i) Describe Dale's Cone of experience and its applications to Education.
ii) Explain the classification of Media Material. (5+5)
[or]
- b) i) Explain the benefits and concerns of Digital Media.
ii) Discuss the types of Language Laboratory. (4+6)
- 2 a) i) Describe TPACK frame work.
ii) Explain the different perspectives of E-learning. (6+4)
[or]
- b) i) Explain the meaning and elements of Multimedia.
ii) Describe the cognitive theory of Multimedia Learning. (4+6)
- 3 a) i) Describe the types of Educational software packages.
ii) Discuss the stages of development of Multimedia Material. (5+5)
[or]
- b) i) Explain the meaning and types of E-content.
ii) Discuss the various E-content tools. (5+5)

Section B

Note : Answer any **Two** of the following questions in about a page each.(2x5=10)

- 4 a) Explain the essentials of an effective Power Point presentation.
- b) Explain the components and syntax of Inquiry training model.
- c) Discuss the principles of Multimedia Learning.
- d) Discuss the applications and advantages of Mobile learning to classroom learning.

ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)
M.Ed. Two Year Programme

Fourth Semester Test - August 2021

MES553 : Theme Based Specialisation Course - III
Educational Technology

Time : 3 Hours

Date : 02-09-2021

Max. Marks : 70

Note : 1. Answer Part - I and Part - II questions on separate Answer Sheets.
2. There are two sections in Part I and Part II in the question paper. Both are compulsory.

PART - I

Section A

Note : Answer the following questions in about three pages each.

- 1a) i) Describe the classification of Media Material.
ii) Discuss the applications of Dale's Cone of Experience to Education. (5+5)
[or]
- b)i) Explain the benefits of Digital Media.
ii) Discuss the types of Language Laboratories. (4+6)
- 2a) i) Explain the types of Educational Software packages.
ii) Discuss the stages of development of Multimedia material. (5+5)
[or]
- b)i) Explain the types of E-Content.
ii) Discuss the ADDIE model of E-Content. (5+5)

Section B

Note : Answer any **Three** of the following questions in about a page each.(3x5=15)

- 3 a) Explain the factors affecting selection of media.
b) Discuss the different types of Instructional design.
c) Explain the fundamental elements/syntax of Inquiry Training Model.
d) Discuss the use of Mobile Technologies for Classroom Learning.
e) Describe the meaning and elements of Multimedia.

PART - II

Section A

Note : Answer the following questions in about **three** pages each.

- 1 a) i) Discuss the evolution of Educational Technology. (4+6)
ii) Analyse Berlo's model of communication .
- [or]
- b) i) Explain the functions of Central Institute of Educational Technology. (6+4)
ii) Discuss the meaning and characteristics of Instructional Technology.
- 2 a) i) Explain the concept, advantages and limitations of Computer Adaptive Testing (CAI). (5+5)
ii) Discuss the role of Learning Management System (LMS) in education. (5+5)
- [or]
- b) i) Discuss the educational paradigms of Computer Assisted Learning (CAL). (5+5)
ii) Explain the essentials of effective Power point presentation.

Section B

Note : Answer any **Three** of the following questions in about a page each.(3x5=15)

- 3 a) Critically analyse the e-learning modalities.
- b) Discuss the framework of TPACK.
- c) Explain the barriers in communication.
- d) Discuss the objectives of Educational Technology.
- e) Explain the functions of Information Technology at school (IT@school).

ST. ANN'S COLLEGE OF EDUCATION, MANGALURU.
(AUTONOMOUS)
M.Ed. Two Year Programme

Fourth Semester Test - November 2022

MES553 : Theme Based Specialisation Course - III
Educational Technology

Time : 3 Hours

Date : 24-11-2022

Max. Marks : 70

- Note : 1. Answer Part - I and Part - II questions on separate Answer Sheets.
2. There are two sections in Part I and Part II in the question paper. Both are compulsory.

PART - I

Section A

Note : Answer the following questions in about three pages each.

- 1a) i) Explain the meaning of Audio Visual Education and the factors affecting the selection of media.
ii) Discuss Dale's Cone of Experience and its application to Education. (5+5)
[or]
- b)i) List the benefits and concerns of Digital Media.
ii) Discuss the various types of Language Laboratories and its merits. (4+6)
- 2a) i) Enumerate the principles of Multimedia Learning.
ii) Discuss the theory and Assumptions of Cognitive theory of Multimedia Learning. (3+7)
[or]
- b)i) List the tools used for creating multimedia material.
ii) Discuss the meaning and types of Educational packages. (3+7)

Section B

Note : Answer any **Three** of the following questions in about a page each.(3x5=15)

- 3 a) Discuss the classification of Media Material.
- b) Explain any three types of Instructional designs.
- c) Discuss the ways of utilizing Mobile Technology in classrooms.
- d) Explain the meaning and elements of Multimedia.
- e) Explain the different types of E-content.

PART - II

Section A

Note : Answer the following questions in about **three** pages each.

- 1 a) i) Discuss the evolution of Educational Technology.
ii) Explain the characteristics and classroom applications of teaching technology and Behaviour technology. (4+6)
- [or]
- b) i) Analyse Schramms and Berlo's Model of Communication.
ii) Discuss the strategies for effective communication and barriers in communication. (4+6)
- 2 a) i) Explain the approaches to CAA.
ii) Give the concept, advantages and limitations of CAT. (6+4)
- [or]
- b) i) Enumerate the role and benefits of LMS in Education.
ii) Discuss individualized e-learning modalities. (6+4)

Section B

Note : Answer any **Three** of the following questions in about a page each.(3x5=15)

- 3 a) Discuss e-learning technologies as authoring tool and delivery and distribution tools.
b) Explain the scope and different perspectives of e-learning.
c) Discuss the TPACK framework and its educational implications.
d) Explain the functions of National Repository Open Educational Resources (NROER).
e) Discuss the approaches of Educational Technology.

**ST ANN'S COLLEGE OF EDUCATION, MANGALURU
(AUTONOMOUS)
M.Ed. Two Year Programme**

Fourth Semester Test - December 2023

**MES553 : Theme Based Specialisation Course - III
Educational Technology**

Time : 3 Hours

Date : 20-12-2023

Max. Marks : 70

- Note : 1. Answer Part - I and Part - II questions on separate Answer Sheets.
2. There are two sections each in Part I and Part II of the question paper. Both are compulsory.

PART - I

Section A

Note : Answer the following questions in about four to five pages each. (2x15=30)

- 1a) i) Explain the classification of media material and the factors affecting the selection of media.
ii) Discuss Dale's Cone of Experience and its application to Education. (8+7)
[or]
- b)i) Explain the benefits and concerns of Digital Media.
ii) Discuss the different types of Language Laboratories with their merits and limitations. (7+8)
- 2a) i) Explain the elements of Multimedia, Assumptions and steps of cognitive theory of Multimedia Learning.
ii) Discuss the stages in the development of multimedia material. (10+5)
[or]
- b)i) Explain the different types of Educational Software Packages.
ii) Discuss the barriers and challenges of utilizing Mobile Technology in the classroom. (7+8)

Section B

Note : Answer any **One** of the following questions in about a page each. (1x5=5)

- 3 a) Discuss the application of any one model of Teaching.
b) Explain the salient features of E-content.

PART - II

Section A

Note : Answer the following questions in about four to five pages each. (2x15=30)

- 1 a) i) Discuss the evolution of Educational Technology.
ii) Define communication and describe Shannon and Weaver's Model of communication. (6+9)
- [or]
- b) i) Explain the approaches of Educational Technology.
ii) Discuss the functions of Central Institute of Educational Technology. (6+9)
- 2 a) i) Define ICT and discuss its significance in education.
ii) Discuss computer as a testing tool. (6+9)
- [or]
- b) i) Describe the framework of TPACK.
ii) Explain the educational paradigms of Computer Assisted Learning (CAL). (6+9)

Section B

Note : Answer any **One of the following questions in about a page each. (1x5=5)**

- 3 a) Discuss collaboration and authoring tools.
- b) Explain synchronous and asynchronous methods of e-learning.

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**ST ANN'S COLLEGE OF EDUCATION, MANGALURU
(AUTONOMOUS)
M.Ed. Two Year Programme**

Fourth Semester Test - March 2025

**MES553(A) : Theme Based Specialisation Course - III
Educational Technology
(a) Elementary Education**

Time : 3 Hours

Date : 10-03-2025

Max. Marks : 70

- Note : 1. Answer Part - I and Part - II questions on separate Answer Sheets.
2. There are two sections each in Part I and Part II of the question paper. Both are compulsory.

PART - I

Section A

Note : Answer the following questions in about four to five pages each. (2x15=30)

- 1a) i) Explain the meaning and purposes of Audio-visual Education.
ii) Describe Dale's Cone of Experience and discuss its Educational Implications with respect to Elementary Education. (7+8)
- [or]
- b) i) Explain the different types of Language Laboratories along with their limitations.
ii) Discuss any one type of type of teaching model with its syntax and applications for Elementary Education. (7+8)
- 2a) i) Explain the meaning of Multimedia and discuss the Cognitive theory of Multimedia Learning.
ii) Explain the different types of E-content and discuss the ADDIE model of E-Content development applicable to Elementary Education. (7+8)
- [or]
- b) i) Explain the different types of Educational Software Packages.
ii) Discuss the stages of development of multimedia material and enumerate the uses of multimedia for Elementary Education. (7+8)

Section B

Note : Answer any **One** of the following questions in about a page each. (1x5=5)

- 3 a) Explain the different types of Instructional Design.
- b) Discuss the barriers and challenges of using Mobile Technology in the Elementary classrooms.

PART - II

Section A

Note : Answer the following questions in about four to five pages each. (2x15=30)

1 a) i) Discuss the applications of Instructional and Behaviour technology for Elementary Education.

ii) Explain the approaches of Educational Technology. (8+7)

[or]

b) i) Describe Aristotle's and Berlo's Model of communication.

ii) Elucidate the strategies for effective communication. (9+6)

2 a) i) Explain the approaches to Computer Assisted Assessment (CAA) for Elementary Education.

ii) Discuss the benefits of Learning Management System (LMS) for Elementary Education. (10+5)

[or]

b)i) Explain e-learning modalities for elementary classroom.

ii) Discuss the paradigms of Computer Assisted Learning (CAL). (10+5)

Section B

Note : Answer any One of the following questions in about a page each. (1x5=5)

3 a) Enumerate the functions of Central Institute of Educational Technology (CIET).

b) Discuss the advantages and limitations of Computer Adaptive Testing (CAT).

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**ST ANN'S COLLEGE OF EDUCATION, MANGALURU
(AUTONOMOUS)
M.Ed. Two Year Programme**

Fourth Semester Test - March 2025

**MES553(A) : Theme Based Specialisation Course - III
Educational Technology
(b) Secondary and Senior Secondary Education**

Time : 3 Hours

Date : 10-03-2025

Max. Marks : 70

- Note : 1. Answer Part - I and Part - II questions on separate Answer Sheets.
2. There are two sections each in Part I and Part II of the question paper. Both are compulsory.

PART - I

Section A

Note : Answer the following questions in about four to five pages each. (2x15=30)

- 1a) i) Explain the meaning and purposes of Audio-visual Education.
ii) Describe Dale's Cone of Experience and discuss its Educational Implications with respect to Secondary and Senior Secondary Education. (7+8)
[or]
- b) i) Explain the different types of Language Laboratories along with their limitations.
ii) Discuss any one type of type of teaching model with its syntax and applications for Secondary and Senior Secondary Education. (7+8)
- 2a) i) Explain the meaning of Multimedia and discuss the Cognitive theory of Multimedia Learning.
ii) Explain the different types of E-content and discuss the ADDIE model of E-Content development applicable to Secondary and Senior Secondary Education. (7+8)
[or]
- b) i) Explain the different types of Educational Software Packages.
ii) Discuss the stages of development of multimedia material and enumerate the uses of multimedia for Secondary and Senior Secondary Education. (7+8)

Section B

Note : Answer any **One** of the following questions in about a page each. (1x5=5)

- 3 a) Explain the different types of Instructional Design.
- b) Discuss the barriers and challenges of using Mobile Technology in the Secondary and Senior Secondary classrooms.

PART - II

Section A

Note : Answer the following questions in about four to five pages each. (2x15=30)

- 1 a) i) Discuss the applications of Instructional and Behaviour technology for Secondary and Senior Secondary Education.
ii) Explain the approaches of Educational Technology. (8+7)
- [or]
- b) i) Describe Aristotle's and Berlo's Model of communication.
ii) Elucidate the strategies for effective communication. (9+6)
- 2 a) i) Explain the approaches to Computer Assisted Assessment (CAA) for Secondary and Senior Secondary Education.
ii) Discuss the benefits of Learning Management System (LMS) for Secondary and Senior Secondary Education. (10+5)
- [or]
- b) i) Explain e-learning modalities for Secondary and Senior Secondary classroom.
ii) Discuss the paradigms of Computer Assisted Learning (CAL). (10+5)

Section B

Note : Answer any One of the following questions in about a page each. (1x5=5)

- 3 a) Enumerate the functions of Central Institute of Educational Technology (CIET).
b) Discuss the advantages and limitations of Computer Adaptive Testing (CAT).