

RE-TEST EXAMINATION, 2021

(New Syllabus)

Semester: 3rd

Subject Code: **AMT-301**

Subject: **MULTIMEDIA SYSTEMS & TECHNOLOGY**

Full Marks – 70

Duration – 3 Hours

The figures to the right indicate full marks for the questions

Illustrate your answers with suitable sketches and examples wherever necessary.

PART-A

Marks - 25

(All questions are compulsory)

Q.1. Fill in the blanks: (1x10 =10)

- a) The two basic component of multimedia systems are _____ and _____.
- b) Compiler is a tool found in a _____ software.
- c) The Korean _____ is a script used for a single language.
- d) Images reflect the _____ of lights.
- e) If digital images are enlarged too much, they become _____.
- f) Abbreviation of PNG is _____.
- g) The device for increasing the power of a signal by use of an external energy source is called _____.
- h) The process of building a single frame from two fields is called _____.
- i) Luma or Luminosity represents the _____ of an image.
- j) Adobe Flash is a _____ authoring tool.

Q.2. Write True or False: (1x10 =10)

- a) Video is a multimedia component.
- b) Digital Signals are represented by Sine waves.
- c) MPEG is a lossless data compression technique.
- d) Symbols are considered as graphics in multimedia.
- e) Tints are created by adding grey to a particular color or hue.
- f) A vector graphics is resolution dependent.
- g) The unit of sound volume is called decibel.
- h) The frame rate of a NTSC video is 29 FPS.
- i) GIF images can be printed on paper.

j) Prototype is also sometimes referred to as feasibility study.

Q.3. Choose the correct answer:

(1x5 = 5)

A) In which areas can multimedia be applied?

- | | |
|-------------|----------------------|
| i) Business | ii) Engineering |
| iii) Home | iv) All of the above |

B) Laser Printers are also sometimes called:

- | | |
|--------------------|------------------------|
| i) Paper Printers | ii) Page Printers |
| iii) Line Printers | iv) Paragraph Printers |

C) Which of these compression algorithms are lossy in nature?

- | | |
|------------------------|-----------------------|
| i) RLE | ii) LZW |
| iii) Both of the above | iv) None of the above |

D) The colour model used in broadcasting of programs on Television is:

- | | |
|-----------------|---------------|
| i) RYB model | ii) RGB model |
| iii) CMYK model | iv) YUV model |

E) Which among the following is not a browser?

- | | |
|-----------------------|--------------------|
| i) Netscape Navigator | ii) Microsoft Edge |
| iii) Google | iv) Safari |

PART-B
Marks - 45
(Answer any *five* questions)

- Q.4. a) Define software. What are the different types of software? (2+3 – 5)
b) What are the characteristics of a multimedia system? (4)
- Q.5. a) Define Symbols and Icons with diagrams. (5)
b) Describe the Extended character set. (4)
- Q.6. a) What are the different ways of acquiring digital images? (5)
b) What is a pixel? (2)
c) What do you understand by morphing? (2)
- Q.7. a) Describe the composition of a MIDI file with a diagram. (4+2 – 6)
b) What do you understand by sound, music and noise? (3)
- Q.8. a) What is aspect ratio in a video? What are the common aspect ratios available? (3)
b) Describe Component and Composite Videos. (3+3 – 6)
- Q.9. Describe the different types of computer networks with a diagram. (9)
- Q.10. While choosing an Authoring Tool what are the different features to look for? (9)
