

Total No. of printed pages = 3

BMD 161203

Roll No. of candidate

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2018

B. Des. 2nd Semester End-Term Examination

**INTRODUCTION TO MULTIMEDIA
COMMUNICATIONS**

(Old Regulation)

Full Marks – 100

Time – Three hours

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

*Illustrate your answer with suitable sketches and
examples wherever necessary*

Answer Q.No. 1 and any six from the rest.

1. Fill in the blanks : (1 × 10 = 10)
- (a) Hardware and software are the two basic
_____ of multimedia.
- (b) Time independent media is also known as
_____ media.
- (c) LZW is a _____ type of data compression
encoding algorithm.
- (d) Italic is a typical font _____.

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- (e) An 8-bit digital coloured image consists of _____ colours.
- (f) Sounds whose frequency are above 20 KHz are called _____.
- (g) MIDI files cannot generate _____.
- (h) The number of frames or still images per unit of time of video is called _____.
- (i) The amount of data that can be transmitted in a fixed amount of time is called _____.
- (j) The reach of a PAN typically extends to _____ metres.
2. (a) Define multimedia. What are the characteristics of a multimedia system? (5)
- (b) State five differences each between Analog and Digital Signals. (5 + 5 = 10)
3. (a) What is data compression and why do we need it? (2+3 = 5)
- (b) Describe Lossless and Lossy data compression with suitable diagrams. (10)
4. (a) Explain what are symbols and icons with suitable examples and diagrams. (5)
- (b) Write a brief note on Unicode. (5)
- (c) Describe the CMYK colour system. (5)
5. (a) Describe 8-bit, 16-bit and 24-bit digital coloured images. (6)
- (b) How can you differentiate between Tints, Shades and Tones? (6)
- (c) What are the characteristics of colour? (3)

6. (a) Describe the usage of filters in Adobe Photoshop. (3)
- (b) State the differences between MIDI and Digital Audio files. (6+6 =12)
7. (a) What does the terms trimming, splicing and assembly mean in editing? (9)
- (b) Explain component video, composite video and stereoscopic video. (6)
8. (a) Describe the three different analog broadcast video standards. (9)
- (b) What is an e-mail? How does it differ from a snail mail? (2+4 = 6)
9. (a) Describe the different types of computer networks with suitable diagrams. (10)
- (b) What are the different types of Virtual Reality systems? (5)
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