

DIP-409

DMS-1

**DIPLOMA EXAMINATION —
JANUARY, 2015.**

Multimedia Systems

MULTIMEDIA SYSTEM

Time : 3 hours

Maximum marks : 75

PART A — (20 × 1 = 20 marks)

Answer ALL the questions.

1. An optical mouse uses a
 - (a) Lighting emitting diode
 - (b) Photodiode
 - (c) Both (a) and (b)
 - (d) None of these

2. The CRT viewable size in one inch
 - (a) 22 mm (b) 23 mm
 - (c) 24 mm (d) 25 mm

3. GIF stands for
- (a) Graphics Ingration Format
 - (b) Graphics Interchange Form
 - (c) Graphics Interchange Format
 - (d) None
4. A hyperspace library contains up to
- (a) 35 K by 21 bit nodes
 - (b) 34 K by 22 bit nodes
 - (c) 32 K by 20 bit nodes
 - (d) 30 K by 22 bit nodes
5. MMDBMS stands for
- (a) Multimedia Data Management Systems
 - (b) Multimedia Data Migration Systems
 - (c) Multimedia Database Management Systems
 - (d) None of the above
6. An 8 bits image each pixel has _____ possible value.
- (a) 124
 - (b) 128
 - (c) 254
 - (d) 256

7. Which image file types is the best for photographs?
- (a) Vector
 - (b) Encapsulated Postscript
 - (c) Bitmap
 - (d) Shockwave
8. Graphics object consists of special data structures used to define
- (a) 2D
 - (b) 3D
 - (c) Both (a) and (b)
 - (d) None of the above
9. A scanner is a device that
- (a) Analyzes images
 - (b) Printed text
 - (c) Hand writing
 - (d) All the above
10. One minute of sound can take up to _____ of space.
- (a) 2-3 Mbs
 - (b) 4-5 Mbs
 - (c) 6-7 Mbs
 - (d) None of the above
11. One optical disk holds about the equivalent of
- (a) 400 floppies
 - (b) 500 floppies
 - (c) 600 floppies
 - (d) 640 floppies

12. The image should be converted from RGB into a different color space called
- (a) XYCbcr (b) XYBcr
(c) YCbCr (d) XYCR
13. The uncompressed 24-bit RGB bitmap image below would require
- (a) 219,726 bytes (b) 219,762 bytes
(c) 219,672 bytes (d) 219,219 bytes
14. Most router implementation use only
- (a) First-Come-First-Server
(b) Last-Come-First-Server
(c) Priority base
(d) None
15. Optical disk capacity range up to
- (a) 4 gigabytes (b) 5 gigabytes
(c) 6 gigabytes (d) 7 gigabytes
16. A stand 74 mm CD contains _____ blocks
- (a) 333,000 (b) 222,000
(c) 123,000 (d) 444,000

17. Power point always allow a minimum of _____ seconds between slides in your presentation.
- (a) 10 (b) 12
(c) 14 (d) 15
18. Magnetic storage was also used for primary storage in a form of
- (a) Magnetic drum (b) Core memory
(c) Thin film memory (d) All the above
19. The original IBM PC / XT have
- (a) 83 keys (b) 86 keys
(c) 88 keys (d) 89 keys
20. The digitalized videos are stored as sequence of frames its resolution and size a single frame can consume up to
- (a) 1 MB (b) 2 MB
(c) 3 MB (d) 4 MB

PART B — ($5 \times 5 = 25$ marks)

Answer any FIVE questions.

21. Describe the properties for MDBMS.
22. Explain the basic approaches for data retrieval.
23. Explain Optical Character Recognition (OCR).

24. Explain different type of touch screen technology.
25. Explain redundant array of inexpensive.
26. Explain types of magnetic tape housing.
27. Explain about Rich Text format.
28. Explain about multimedia tools.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

29. Explain Data stripling and Redundancy.
30. Explain following multimedia streaming :
 - (a) Protocol issues.
 - (b) Streaming band width and storage.
31. Discuss in detail about the application of E-Publishing.
32. Explain about Audio Plus Power Point.
33. Explain file types and classifying image.