

Total No. of printed pages = 2

AMT-301/MS&T/3rd Sem/2013/N

**MULTIMEDIA SYSTEMS  
AND TECHNOLOGY**

Full Marks – 70

Pass Marks – 28

Time – Three hours

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

Answer any *seven* questions.

Illustrate your answers with suitable sketches  
and examples wherever necessary.

1. Define Multimedia. What are the characteristics of multimedia? 5+5=10
2. What do you mean by resolution? What are the different types of resolution? Give examples. 2+6+2=10
3. (a) What are the different ways of acquiring digital images? 5  
(b) What is an alpha channel? What are the different file types that support alpha channel? 3+2=5

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4. What are the differences between a bitmap image and a vector graphics? 10
5. (a) What are acoustics? What do you understand by musical sound and noise? Explain with a diagram and examples. 2+3=5
- (b) Describe the composition of a MIDI file. 5
6. What are the three different analog broadcast video standards? Describe them briefly. 10
7. What are the different tools associated with VR systems? What are their functionalities? 10
8. What are the different types of authoring tools? Explain them. 10
9. Write short notes on any *five* of the following : 5×2=10
- (i) Pixel
  - (ii) 24-bit image
  - (iii) Fonts
  - (iv) Anti-aliasing
  - (v) Codec
  - (vi) Data compression
  - (vii) LAN