

Total No. of printed pages = 3

AMT-301/MS&T/3rd Sem/2017/M

## 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. (a) Define the term 'multimedia'. 6
- (b) What are the characteristics of a multimedia system ? 4
2. What are the various areas where multimedia can be applied ? Give examples. 10

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3. Describe the process of ADC and DAC with suitable diagrams. 10
4. (a) What is 'depth' of an image ? 2  
(b) Describe 1-bit, 4-bit, 8-bit, and 16-bit images. 8
5. (a) What are the characteristics of musical sound ? 6  
(b) What is the difference between musical sound and noise ? 4
6. (a) What do you understand by component video and composite video ? 6  
(b) What is vertical resolution and horizontal resolution ? 4
7. What are the different types of computer networks ? Describe with diagrams. 10
8. Describe the Alpha development and Beta development stage of a multimedia project. 10

9. Write short notes on any *five* of the following :

5×2=10

- (i) Data compression
- (ii) Symbols and icons
- (iii) Kinematics
- (iv) NTSC
- (v) HMD
- (vi) Stereoscopic video
- (vii) Installer.