

Roll No. ....

Total Pages : 3

**434106**

**December, 2019**

**B.Sc. Animation - I SEMESTER**

**Fundamentals of Information and Web Technology  
(BSC-AM-19-106)**

Time : 3 Hours]

[Max. Marks : 75

*Instructions :*

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

**PART - A**

1. (a) What is a Digitizer? (1.5)
- (b) What is Assembly language? (1.5)
- (c) What is HTTP? (1.5)
- (d) Differentiate between Broadband and Baseband. (1.5)
- (e) What is URL? (1.5)

434106/60/111/179

P.T.O.  
23/12

- (f) What is the function of physical layer in OSI model? (1.5)
- (g) Explain Amplitude modulation in brief. (1.5)
- (h) What is ROM? (1.5)
- (i) What are Impact printers? (1.5)
- (j) What is Magnetic Ink Character Recognition? (1.5)

**PART - B**

- 2. (a) What is an Operating System? Explain various functions of Operating System in detail. (8)
- (b) What is a microprocessor? Explain different buses of microprocessor in detail. (7)
- 3. (a) What are the different types of transmission mediums or Communication channels? Explain different types of communication channels in detail. (5)
- (b) Explain different types of Network topologies in detail. (10)
- 4. Differentiate between :
  - (a) LAN, MAN and WAN. (5)
  - (b) Compiler and Interpreter. (5)
  - (c) Linker and Loader. (5)

- 5. Convert :
  - (a) Hexadecimal number (A2D) into decimal form. (3)
  - (b) Decimal number 172 into binary form. (3)
  - (c) Binary number (10101111.0010111) in its Octal form. (3)
  - (d) Explain some pointing devices in detail. (6)
- 6. (a) Write an HTML code for designing an online college admission form using radiobuttons, checkboxes and Textboxes. (9)
- (b) Write an HTML code for designing a webpage with yellow background; attach an image "Flower.jpg" to it and link it to another webpage "Page2.html". (6)
- 7. (a) What are Display devices? Explain Random Scan, Raster Scan and Storage tube display in detail. (10)
- (b) What is CPU? Explain architecture of CPU in detail along with well labelled diagram. (5)