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MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

*A Constituent Institution of Manipal University*

### III SEMESTER B.TECH. (PRINT AND MEDIA TECHNOLOGY)

**END SEMESTER MAKE-UP EXAMINATIONS, DEC/JAN 2016-17**

SUBJECT: FUNDAMENTALS OF ELECTRONIC MEDIA [PMT 2105]

## REVISED CREDIT SYSTEM

**(02/01/2017)**

Time: 3 Hours

MAX. MARKS: 50

### Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitable assumed.

- 1A.** Explain the working of a GPS system.
- 1B.** Explain the working of NTSC transmission.
- 1C.** With the help of a diagram explain the types of computer network based on their topology.
- [ 03 + 03 + 04 ]**
- 2A.** Explain the following wireless technologies.
- a. Wi-Fi                                      b. Li-Fi
- 2B.** Explain the following types of antennas.
- a. Fractal                                      b. Helical                                      c. Dish
- 2C.** List the advantages and disadvantages of a submarine communication cable.
- [ 04 + 03 + 03 ]**
- 3A.** List the characteristics of the following towers.
- a. Self-supporting tower                      b. Guy tower
- c. Steel lattice tower.                      d. Reinforced concrete tower
- 3B.** With the help of neat labelled diagram explain the working of DLP TV.
- 3C.** Explain the three types of cloud computing services.
- [ 04 + 03 + 03 ]**

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**4A.** Explain the following computer networking hardware.

- a. Hub                      b. Gateway                      c. Switch                      d. Bridge

**4B.** Explain the components of a video camera.

**4C.** Define the following.

- a. Communication satellite                      b. Footprint  
c. Uplink                      d. Downlink

**[ 04 + 04 + 02 ]**

**5A.** Explain the construction of an OB van.

**5B.** Explain the characteristics of the following broadcasting medias

- a. Telephone                      b. Radio                      c. Television

**5C.** Explain the process of video hosting. Explain the types of dedicated video hosting websites with example.

**[ 03 + 03 + 04 ]**