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MANIPAL INSTITUTE OF TECHNOLOGY

MANIPAL

A Constituent Institution of Manipal University

SIXTH SEMESTER B.TECH. (PRINTING AND MEDIA ENGINEERING)

MAKEUP EXAMINATIONS, JUNE 2017

SUBJECT: TELEVISION TECHNOLOGY [PMT 4018]

REVISED CREDIT SYSTEM

(20/06/2017)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

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

- 1A.** List and explain different applications of a communication satellite.
- 1B.** Explain the two fundamental parameters of an optical lens and their uses.
- 1C.** List the differences between the terrestrial and cable broadcasting systems.

[02 + 04 + 04]

- 2A.** Explain the following.
- 2B.** Explain any 4 factors determining the design of an OB van.
- 2C.** Explain the role of microwave as a contribution link to television broadcasting.

[02 + 04 + 04]

- 3A.** Explain guyed towers.
- 3B.** Draw a neat diagram showing the working of a television.
- 3C.** With the help of a diagram explain Video codec design using chroma subsampling process in video compression.

[02 + 04 + 04]

- 4A.** Explain the broadcasting process of satellite TV /DTH.
- 4B.** List and explain any 4 types of antennas.
- 4C.** Explain the various facilities available at the transmitter site.

[02 + 04 + 04]

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- 5A.** List and explain any 4 types of television.
- 5B.** Explain the following.
- a. Directional Arrays b. Skywave
- 5C.** What is a communication satellite? Explain different stabilization systems present in a satellite.

[02 + 04 + 04]