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**MANIPAL INSTITUTE OF TECHNOLOGY**  
**MANIPAL**

A Constituent Institution of Manipal University

**SIXTH SEMESTER B.TECH. (PRINT AND MEDIA TECHNOLOGY)**

**END SEMESTER EXAMINATIONS, APR/MAY 2017**

**SUBJECT: TELEVISION TECHNOLOGY [PMT 4018]**

**REVISED CREDIT SYSTEM**  
**(27/04/2017)**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

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

**1A.** Explain different types of remote control systems.

**1B.** Explain the working of a television.

**1C.** List and explain the components of a communication satellite.

**[ 02 + 04 + 04 ]**

**2A.** List any 4 advantages and disadvantages of satellite communication.

**2B.** Explain the two fundamental parameters of an optical lens and their uses.

**2C.** Explain any 2 types of basic transmission modes for television.

**[ 02 + 04 + 04 ]**

**3A.** With the help of a neat diagram show the working of Digital Light Processing television.

**3B.** Explain any 4 processing Equipment present at a transmitter site.

**3C.** Explain the role of microwave as a contribution link to television broadcasting.

**[ 02 + 04 + 04 ]**

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- 4A.** Explain any 4 installations on the studio floor.
- 4B.** With the help of a diagram explain the working of NTSC transmission.
- 4C.** With the help of a diagram explain inter-frame prediction process in video compression.

**[ 02 + 04 + 04 ]**

- 5A.** What is 'Focus' in a camera lens? Explain the types of focusing option available.
- 5B.** Explain any 4 parts of an OB van.
- 5C.** Explain any 4 different types of translators.

**[ 02 + 04 + 04 ]**