



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

**END SEMESTER EXAMINATIONS, APRIL 2018**

**SUBJECT: PE – III TELEVISION TECHNOLOGY [PMT 4018]**

**REVISED CREDIT SYSTEM**  
**(24/04/2018)**

Time: 3 Hours

MAX. MARKS: 50

**Instructions to Candidates:**

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

**1A.** Define the following.

- a) Footprint
- b) Uplink
- c) Downlink
- d) Transponder

**1B.** With the help of a diagram explain the working of an LCD TV.

**1C.** Explain the different parts, an OB Van can be divided into.

**[ 02 + 04 + 04 ]**

**2A.** Explain the components present in a cathode ray tube.

**2B.** Explain the broadcasting process of satellite TV /DTH.

**2C.** Explain different types of translators.

**[ 02 + 04 + 04 ]**

**3A.** With a neat diagram explain the working of a 3CCD sensor.

**3B.** Explain the role of microwave as a television contribution link.

**3C.** Explain the different installations present at a studio floor.

**[ 02 + 04 + 04 ]**

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- 4A.** What is interlaced scanning? What are its advantages?
- 4B.** Explain the different categories into which the towers are classified based on their structural action.
- 4C.** Explain different digital television terrestrial broadcasting standards available for digital broadcasting.

**[ 02 + 04 + 04 ]**

- 5A.** Explain the phenomenon of 'Sky wave' in AM antenna broadcasting.
- 5B.** Explain transmitter remote control and its types.
- 5C.** Discuss the role of different processing equipment used to prepare the signal for transmission.

**[ 02 + 04 + 04 ]**