



C14-EC-502

**4628**

**BOARD DIPLOMA EXAMINATION, (C-14)**

MARCH / APRIL - 2019

**DECE - V SEMESTER EXAMINATION**

**CONSUMER ELECTRONICS**

Time : 3 Hours]

[Total Marks : 80

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**PART - A**

**3×10=30**

**Instructions :**

- (1) Answer **ALL** questions.
- (2) Each question carries **THREE** marks.
- (3) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1 Mention the specifications of microphone.
- 2 Mention the uses of woofer.
- 3 What is meant by Hi-fi.
- 4 State the need for horizontal and vertical scanning.
- 5 List any three standards of PAL colour transmission system.
- 6 State compatibility of TV system.
- 7 List out the basic components of cable TV.
- 8 List out the features of SMART TV.
- 9 State the working principle of microwave oven.
- 10 List any three advantages of fuzzy logic in washing machines.

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[ Contd...

**PART - B**

**10×5=50**

- Instructions :**
- (1) Answer any **FIVE** questions.
  - (2) Each question carries **TEN** marks.
  - (3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11 Explain the working of a carbon microphone.
- 12 Explain the working of DVD player with block diagram.
- 13 Explain interlaced Scanning.
- 14 List out the standards of TV transmission as per CCIR-B.
- 15 Draw the block diagram of colour TV receiver and state the function of each block.
- 16 (a) Explain the principle, construction and working of a magnetic headphone.  
(b) Distinguish between additive and subtractive mixing.
- 17 Explain the cable TV components such as amplifiers, directional couplers and converters.
- 18 Explain the working of washing machine with block diagram.