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# 4631

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

**JUNE-2019**

**DECE - FIFTH SEMESTER EXAMINATION**

**CONSUMER ELECTRONICS**

**Time:3 Hours**

**Max.Marks:80**

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**PART-A**

**10x3=30M**

**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 sentence.

- 1) What are the uses of tweeters and woofers?
- 2) State the need of bass, treble, balance, and volume control in stereo amplifier.
- 3) List three advantages and disadvantages of magnetic recording.
- 4) State the frame and field frequencies.
- 5) State need for horizontal synchronisation and blanking pulses.
- 6) List all different pulses in a composite video signal.
- 7) Write the necessity of mid band and super band channels.
- 8) List the three characteristics of Human Eye. What do they determine?
- 9) List different types of colour tv monitors.
- 10) List applications of projection TV.

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## PART-B

**5x10=50M**

**Instructions:** 1) Answer any five questions and carries ten marks.  
2) Answer be comprehensive and the criterion for valuation is the content but not the length of the answer.

- 11) Explain the construction and working of Condenser microphone. Also give its characteristics.
- 12) Explain the constructional features and principle of operation of PPMC Loud Speaker.
- 13) Describe the speaker arrangement and features of Dolby Digital 5.1 Surround Sound (AC3) system.
- 14) Sketch the Composite Video Signal, label its parts and explain them.
- 15) A) List five advantages and disadvantages of magnetic recording. 5m  
B) Distinguish between progressive and interlaced scanning. 5m
- 16) Draw the block diagram of a Colour tv receiver and state the function of each block.
- 17) Explain compatibility and reverse compatibility in TV system.
- 18) Describe the features of HDTV and SMART TV

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