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**EC-804 (GS)****B.E. VIII Semester**

Examination, May 2018

**Grading System (GS)****TV and RADAR Engineering***Time : Three Hours**Maximum Marks : 70*

**Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. a) With the help of block diagram explain the basic principle of sound and picture transmission.  
b) Explain flicker. How it can be removed?
2. a) Discuss about the horizontal and vertical sync. and blanking standards.  
b) Discuss about video modulation and vestigial side band signal.
3. a) Discuss about the consolidated CCIR system - B standards.  
b) Explain the working principle of Videocon camera.
4. a) Explain the working of colour television camera.  
b) Explain the working of Trinitron picture tube.

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5. a) Discuss the designing principle of TV transmitter.  
b) Explain about co-channel interference and ghost images. How can they be removed?
6. a) Discuss about fully digital television system.  
b) Discuss the principle working of High Definition Television System (HDTV)
7. a) Explain the principle working of MTI Radar.  
b) Explain the working of FM-CW Radar.
8. Write short notes on any two of the following:
  - a) CCTV
  - b) LCD display
  - c) Synthetic aperture radar

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