EC-804 B.E. VIII Semester Examination, June 2015

TV & Radar Engineering

Time: Three Hours http://www.rgpvonline.com Maximum Marks: 70

Note: i) Attempt one question from each unit, ii) Each question carry equal marks.

Unit-I

- 1. a) What is flicker? How it can be removed? Explain interlaced scanning?
- b) Explain the working principle of silicon vidicon picture tube.

OR

- 2. a) Draw the composite video signal end explain the importance of all the pulses.
- b) Explain about the CCD image sensors.

Unit-II

- 3. a) Explain the principle working oftfinitron picture tube.
- b) With the help of block diagram explain TV transmitter.

OF

- 4. a) Explain the principle of plasma and LCD displays.
- b) With the help of block diagram explain colour television receiver.

Unit-III

5. a) Discuss the merits of digital technology, b) Discuss the principle workingpfCCTV.

OR

- 6. a) Discuss the principle working of video and audio processor unit.
- b) Discuss the principle working of HDTV.

Unit-IV

- 7. a) With the help of block diagram explain the working of Radar and determine the Radar range equation.
- b) Discuss the principle of MTI Radar.

OR

- 8. a) What do you understand by Radar cross section of target? Also discuss about pulse repetition frequency and range ambiguities.
- b) Discuss the principle working of FM CW radar.

Unit-V

- 9. Write short notes on the following
 - a) Displays type A and PPL b) Synthetic aperture radar.

OR

- 10. Write short notes on the following
 - a) Air Surveillance Radar (ASR) b) Bistatic radar.