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

## **TV & Radar Engineering**

Time: Three Hours Maximum Marks: 70 www.rgpvonline.in Note: i) Attempt one guestion from each unit, ii) Each guestion 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. 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 gpvonline.in Unit-V 9. Write short notes on the following b) Synthetic aperture radar. a) Displays type A and PPL OR 10. Write short notes on the following

b)

Bistatic radar.

Air Surveillance Radar (ASR)

a)