

Exam Date & Time: 26-Sep-2020 (10:00 AM - 01:30 PM)

**PSG COLLEGE OF ARTS AND SCIENCE****Note: Writing 3hrs: Checking & Inserting Image : 30mins****BSc DEGREE EXAMINATION MAY 2020
(Sixth Semester)****Branch - ELECTRONICS****ELECTRONIC COMMUNICATION - II [14ELU24]****Marks: 75****Duration: 210 mins.****SECTION A****Answer all the questions.**

- 1) What do you mean by Sync pulse? (2)
- 2) Define Hue. (2)
- 3) What is equatorial orbit? (2)
- 4) Define perigee. (2)
- 5) Define Radar. (2)
- 6) State the use of line pulse. (2)
- 7) What is attenuation? (2)
- 8) Write a note on channel coupler. (2)
- 9) Draw the frame structure of GSM. (2)
- 10) What is DTX? (2)

SECTION B**Answer all the questions.**

- 11) Explain briefly the 3 colour theory. (5)
 - a) [OR] Distinguish between LCD and LED. (5)
 - b)
- 12) Explain the uses of satellite for communication. (5)

- a)
[OR] Find the orbital velocity and period for a satellite that is 1000 km above earth surface. (5)
b)
- 13) Explain the working principle of Radar system. (5)
- a)
[OR] What do you mean by automatic target detection in radar system? Explain. (5)
b)
- 14) Write the advantages of optical fiber communication. (5)
- a)
[OR] Discuss about the splicing techniques in fiber optics. (5)
b)
- 15) Explain about the services of global system for mobile in communication. (5)
- a)
[OR] Discuss about the different types of handovers in GSM system. (5)
b)

SECTION C

Answer 3 out of 5 questions.

- 16) With a neat diagram, explain the PAL transmitter. (10)
- 17) Explain in detail about satellite and transponders. Give necessary diagram. (10)
- 18) Discuss in detail about the factors governing pulse characteristics in Radar system. (10)
- 19) Explain in detail about the lensing schemes for coupling improvements in fiber optic communication. (10)
- 20) Explain about the network switching sub-system in detail. (10)

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