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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022

(Fifth Semester)

Branch - ELECTRONICS

ELECTRONIC COMMUNICATION - II

1 ime:	Inree Hours Maximum: /5 Marks
	SECTION-A (10 Marks) Answer ALL questions
	ALL questions carry EQUAL marks $(10 \times 1 = 10)$
1	The main purpose of interlacing in television scanning is to (i) reduce flicker (ii) brighten the TV picture (iii) sharpenpicture outline (iv) increase channel bandwidth
2	The main function of electron gun in a cathode-ray tube is to electrons. (i) deflect (ii) produce (iii) size (iv) aspect
3	In klystron amplifier, the input cavity is called (i) buncher (ii) catcher (iii) Pierce gun (iv) collector
4	Microwave resonators are used in (i) microwave oscillators (ii) microwave narrow band amplifier (iii) microwave freq (iv) All the above
5	In optical communication acts as a transmission medium. (i) Coaxial cable (ii) Waveguide (iii) Optical fiber cable (iv) None of the above
6	The bandwidth in fiber optic communication is represented in terms of (i) Wavelengths (ii) Frequencies (iii) Both a and b (iv) None of the above
7	A communication satellite is a repeater between (i) a transmitting station and a receiving station (ii) a transmitting station and many receiving station (iii) many transmitting station and many receiving station (iv) none
8	A geosynchronous satellite (i) has the same period a that of the Earth (iii) rotates in the equatorial plane (ii) has a circular orbit (iv) has all of the above
9	Which of the following is a type of wireless communication? (i) LAN (ii) WAN (iii) PAN (iv) All of the mentioned
10	Which type of transmission technique is employed by paging system? (i) Multicasting (ii) Unicasting (iii) Hybrid (iv) Simulcasting

SECTION - B (25 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 5 = 25)$

11 a Explain about Composite video signal.

OR

- b Discuss about DTH.
- 12 a Describe about Microwave concept.

OR

- b State the function of Lens Antenna.
- 13 a Discuss about Applications of Fiber.

OR

- b Illustrate the function of passive optical networks.
- 14 a Classify Geo synchronous orbits.

OR

- b Discuss the function of Transmitter sub system.
- 15 a Explain about wireless LAN.

OR

b Analyze the term IR PANs.

SECTION -C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 8 = 40)$

16 a Draw & explain the function of Scanning.

OR

- b Classify the function of HDTV.
- 17 a Describe the function of waveguide hardware and accessories.

OR

- b Design the circuit of Horn antenna & slot antenna...
- 18 a Discuss about optical communication system.

OR

- b Explain the function of connectors & splicing with diagrams.
- 19 a Enumerate the points about satellite communication system.

OR

- b Highlight the function of GPS receiver.
- 20 a Differentiate PANs and Bluetooth.

OR

b Summarise important aspects of RFID.

Z-Z-Z

END