

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2026
(Fifth Semester)

Branch - ELECTRONICS

ELECTRONIC COMMUNICATION - II

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	_____ as the width to height ratio of a picture frame a) Aspect ratio b) Scanning c) Flicker d) Skimming	K1	CO1
	2	_____ is the resolution of Indian PAL system. a) 140 lines b) 340 lines c) 410 lines d) 40 lines	K2	CO2
2	3	The phenomenon describes the progressive decrease of signal strength with increasing distance _____ a) Radiation b) Attenuation c) Modulation d) Propagation	K1	CO1
	4	_____ type of device is a reflex klystron used as in a pulsed radar set a) Single mixer stage b) Local oscillator c) Transmitter oscillator d) Duplexer stage	K2	CO2
3	5	The Standard single mode fibers (SSMF) are utilized mainly for operation in _____ a) C-band b) L-band c) O-band d) C-band and L-band	K1	CO1
	6	Multimode step index fiber has a large core diameter of range is _____ a) 100 to 300 μm b) 100 to 300 nm c) 200 to 500 μm d) 200 to 500 nm	K2	CO2
4	7	A satellite signal transmitted from the Earth to a satellite is called a(n) _____ a) Downlink b) Terrestrial c) Earthbound d) Uplink	K1	CO1
	8	Which component in a satellite earth station collects very weak signals from a broadcast satellite? a) Helical antenna b) Satellite dish c) LNA (Low-Noise Amplifier) d) TWT	K2	CO2
5	9	The frequency range of the IEEE 802.11a standard is _____ a) 2.4 Gbps b) 5 Gbps c) 2.4 GHz d) 5 GHz	K1	CO1
	10	Which protocol allows multiple APs to connect with many redundant connections between nodes? a) LWAPP b) AWPP c) STP d) IEEE	K2	CO2

Cont...

SECTION - B (35 Marks)Answer **ALL** questions**ALL** questions carry **EQUAL** Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Bring out the features in Composite Video Signal.	K1	CO1
	(OR)			
	11.b.	Develop the techniques noted in Aspect Ratio.		
2	12.a.	Narrate the working of Klystrons in Microwave communications.	K2	CO2
	(OR)			
	12.b.	Summarize the range covered using in Parabolic Antenna.		
3	13.a.	Explain the various function of parameters in Optic Cables.	K3	CO3
	(OR)			
	13.b.	Describe the working principle of Optical Transmitters and Receivers.		
4	14.a.	Sketch the function made for analyzing the Global positioning system.	K4	CO4
	(OR)			
	14.b.	Outline the GPS receivers in communication systems.		
5	15.a.	Analyse the issues about the interfacing IrDA System.	K4	CO4
	(OR)			
	15.b.	Organize the input terminals in Ultra wideband Wireless.		

SECTION -C (30 Marks)Answer **ANY THREE** questions**ALL** questions carry **EQUAL** Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Briefly explain the function of Monochrome TV Transmitter with neat Block Diagram.	K1	CO1
2	17	Describe about the technique involved in Intelligent antenna technology.	K2	CO2
3	18	Illustrate the applications and benefits of Fiber optic communications.	K3	CO3
4	19	Summarise the importance of Ground Stations-receiver subsystem in satellite communications.	K4	CO4
5	20	Elaborate the characteristics of ZigBee and Mess Wireless Networks.	K4	CO4

Z-Z-Z END