PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BVoc DEGREE EXAMINATION MAY 2024
(First Semester)

Branch – **NETWORKING & MOBILE APPLICATION**

FUNDAMENTALS OF NETWORKS AND INDUSTRIAL SAFETY

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	Broadcast systems that support transmission to a subset of the machines is known as a. unicasting b. multicasting c. typecasting d. telecasting	K1	CO1
	2	FTTH can provide Internet access at rates on the order of ____ a. 5 to 10 Mbps b. 10 to 20 Mbps c. 10 to 100 Mbps d. 20 to 40 Kbps	K2	CO2
2	3	A _____ consists of a stiff copper wire as the core, surrounded by an insulating material a. twisted pair b. coaxial cable c. power line d. fiber optic	K1	CO1
	4	The number of oscillations per second of a wave is called its _____ a. wavelength b. bandwidth c. frequency d. speed	K2	CO2
3	5	The following protocol is defined in RFC 826 a. OSPF b. DHCP c. ARP d. ICMP	K1	CO1
	6	The _____ encoding schemes are called self-clocking a. Manchester b. Bipolar-AMI encoding c. 4B/5B digital d. none of the above	K2	CO2
4	7	The MPEG-1 standard was first published in the year ____ a. 1990 b. 1991 c. 1992 d.1993	K1	CO1
	8	The following HTTP method echoes the incoming request a. HEAD b. TRACE c. OPTIONS d. CONNECT	K2	CO2
5	9	____ means free from injury, damage, accident or loss a. safe b. security c. precaution d. hazard	K1	CO1
	10	The following is not a method of internal communication for safety a. Notice board b. Bulletins c. Team briefings d. websites	K2	CO2

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.	Explain the architecture of Internet.	K2	CO3
		(OR)		
	11.b.	Outline the concept of wireless LANs.		
2	12.a.	Identify the principles of the layers of the TCP/IP reference model.	K3	CO4
		(OR)		
	12.b.	Classify the different guided transmission media techniques.		
3	13.a.	Distinguish between analog and digital signals.	K4	CO5
		(OR)		
	13.b.	Inspect the functions of IP version 4 protocol.		
4	14.a.	Recognize the various aspects of digital video.	K3	CO4
		(OR)		
	14.b.	Using forms, build a HTML code for an order form.		
5	15.a.	Analyze the various safety objectives.	K4	CO5
		(OR)		
	15.b.	Identify the different types of industries.		

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	Examine the different types of networks.	K4	CO5
2	17	Analyze the functionalities of various wireless transmission media.	K4	CO5
3	18	Infer the four main combinations data and signals and the ways of transmitting them.	K4	CO5
4	19	Analyze the important properties of hypertext transfer protocol.	K4	CO5
5	20	Classify the different kinds of safety responsibilities.	K4	CO5

Z-Z-Z   END