

**BE Semester-VI (Biomedical Engineering) Question Bank**

**(BM-604 Data Communication & Networking)**

**All questions carry equal marks (10 marks)**

Q.1	Draw & explain the block diagram of communication system.
Q.2	Define following terms : 1) S/N Ratio 2) Rate of Communication 3) Channel Bandwidth 4) Modulation
Q.3	Write a short note on DPCM.
Q.4	Write a short note on Sampling theorem.
Q.5	Explain transmission of analog & digital messages over communication channel.
Q.6	Write a short note on QAM.
Q.7	Explain signal distortion over communication channel.
Q.8	Explain transmission of signal through a linear system.
Q.9	Explain Signal energy and energy spectral density in detail.
Q.10	Explain Signal power and power spectral density in detail.
Q.11	Write a short note on SSB.
Q.12	Write a short note on PCM.
Q.13	Explain base band & carrier communication.
Q.14	Write a short note on DSB.
Q.15	Write a short note on AM.
Q.16	Write a short note on Super Heterodyne AM Receiver.
Q.17	Explain carrier acquisition in detail.
Q.18	Draw & explain LAN technologies hardware.
Q.19	Write a short note on wireless communication.
Q.20	Explain TCP/IP protocol with diagram.
Q.21	Write a short note on video conferencing.
Q.22	Explain the Internet Standard Services in detail.
Q.23	What is UDP? Explain in detail.
Q.24	Explain Scrambling with neat diagram.
Q.25	Explain Digital multiplexing in data communication.
Q.26	Explain OSI seven layer model with neat diagram.
Q.27	Enlist different transmission media & explain any one in detail.
Q.28	Explain digital communication system in detail.
Q.29	Write a short note on Line coding.
Q.30	Write a short note on Pulse shaping.
Q.31	Explain in detail Detection-Error Probability.
Q.32	Explain digital carrier system in digital data transmission.
Q.33	Explain the process of digitization.
Q.34	Explain multilevel transmission in detail.
Q.35	Explain services & operating systems in LAN technologies.
Q.36	What is protocol? Explain protocols & datagrams in detail.
Q.37	Explain in detail layer 3 & layer 4 of OSI seven layer model.
Q.38	List & explain different transmission media in short.
Q.39	What is internet? Explain types of internet connections in short.
Q.40	Write a short note on terminal devices.