0212N907

Candidate's Seat No:

B.Sc Sem.-5 Examination

SE 305

Electronics (A) - Consumer Electronics

December-2024 IMax. Marks: 70 Time: 2-30 Hoursl Instructions: (1) All questions carry equal marks. (2) Symbols used here have their usual meanings. (3) Figures to the right indicate marks. Second. With diagram explain construction, working & features of Moving coil Microphone. 07 With diagram explain construction, working & features of Ribbon Microphone. 07 (A) With diagram explain principle, construction & working Crystal Microphone. 07 (B) Define Cardiod Microphone. The plates of a condenser microphone have a diameter of 10 cm. The 07 separation varies from 0.002 cm to 0.005 cm Find the capacitance for the two positions. 2 (A) With diagram explain construction, working & advantages of Moving Coil (Cone Type) Loudspeaker. 07 (B) With diagram explain construction, working & features of Electrodynamic Loudspeaker. 07 (A) With diagram explain construction, working & features of Horn Loudspeaker. 07 Write short note on Baffles and Enclosures. (B) 07 3 (A) Write a short note on video disc. 07 Explain in detail regarding video disc formats and LASER vision. 07 OR (A) Discuss about Solid-State LASER. 07 (B) Write a short note on Optical Memory Disc. 07 (A) With diagram explain principle, construction & working of Capacitor Microphone. 07 With diagram explain Cross-Over Circuits in detail. (B) 07 OR (A) Explain Selectavison (RCA) and Vide High Density 07 Explain the term Microphone requirements. Explain following qualities of Microphone in detail: Sensitivity, (B) Frequency Response, Signal to Noise Ratio, Output impedance, Distortion & Directivity. Attempt any seven out of twelve. 14 Ribbon microphone has distortion less than % The capacitance of a parallel plate air capacitor is inversely proportional to the distance between the (B) (C) Crystal microphone principle is based on _____ (D) Ceramic is the most commonly used material in _____ microphone. (E) Moving coil loudspeaker gives frequency response in the 200 Hz to _____ Hz range. (F) Electro-dynamic loudspeaker is also known as direct _____ loudspeaker. (G) The low frequency loudspeaker covers 16 Hz to 500 Hs is known as ______ (H) The medium frequency loudspeaker covers 500 Hz to 5000 Hz is known as ______. (I) _____ depth of video disc is approximately 0.1 µm. Long play discs for straight forward _____ playback of entertainment programs. (J) The TeD and RCA systems, fail to function if the disc ______ is damaged. (K) The RCA stylus recovers information from the _____ surface by direct electrical means. (L)