

BE Semester: - VTH (BIOMEDICAL DEPARTMENT) Question Bank

(DIAGNOSTIC INSTRUMENTATION)

All questions carry equal marks (10 marks)

Q.1	Explain Doppler's effect and explain any two applications.
Q.2	Write a short note on: echocardiography and Cartography
Q.3	Write a short note on: tread mill and holter monitoring
Q.4	Explain ECG in detail including block diagram, waveform and pre-amplifier.
Q.5	Define different volumes & capacities also draw the diagram illustrating it.
Q.6	Explain Fluoroscopy and Image Intensifier in detail.
Q.7	Explain any two: (a) Foetal monitor (b) Echocardiograph (c) Echoencephalograph
Q.8	Explain in detail Tonometer and explain its types.
Q.9	Explain in detail Spirometer include principle, construction & working.
Q.10	Explain in detail PET SCAN.
Q.11	Elaborate on blood flow measurement.1
Q.12	Write a short note: Bronchoscopy, Laryngoscopy.
Q.13	Write a short note on Biotelemetry and their clinical significance.
Q.14	Explain Obstetric & Gynecological problems and their diagnosis.
Q.15	Discuss in detail intravenous pyclography & Ultrasonography.
Q.16	Discuss in detail CT SCANNER & generations of CT SCANNER.
Q.17	Explain in detail EEG
Q.18	Write a short note on: Electronic manometer and Electronic stethoscope
Q.19	Explain auditory disorders and diagnosis in detail.
Q.20	Explain VER, ERG, EOG & ENG.
Q.21	Write a short note on: intravenous pyclography, Ultrasonography.
Q.22	Explain Laparoscopy and Cystoscopy.
Q.23	What are the principle & applications of Upper G.I. Endoscopy, colonoscopy?
Q.24	Elaborate on principles and applications of Sigmoidoscopy & Proctoscopy.
Q.25	What are the principle & applications of barium meal studies, capsule endoscopy?
Q.26	Elaborate on principles and applications of ultrasonography.
Q.27	Elaborate on principles and applications of cholecptography.
Q.28	Explain capsule endoscopy in detail.
Q.29	Explain Oxygen & Carbon dioxide content measurement.
Q.30	Explain Oxygen & Carbon - dioxide pressure measurement.
Q.31	Explain Perimetry and Refractometry.
Q.32	Explain disorders of eye and Ophthalmoscopy.
Q.33	Explain ultrasonic applications for eye and explain them in detail.
Q.34	Explain echocardiography, cartography.
Q.35	Explain various enzyme assays in detail.
Q.36	Explain EMG in detail.
Q.37	Write a short note on: Auto- refractrometer and thermometer.
Q.38	Explain in detail Bronchoscopy along with related anatomy and physiology.
Q.39	Explain in detail Laryngoscopy along with related anatomy and physiology.
Q.40	Explain different disorders of nervous system and explain different scanning techniques used for diagnosis.