

Q3) Answer any four of following :

[16]

- a) Write short note on EMG.
- b) Explain principle, construction and working of Bimetallic thermometers.
- c) Explain Nuclear magnetic resonance.
- d) State advantages and disadvantages of platinum resistance thermometers.
- e) Explain dissecting microscope with neat labelled diagram.
- f) Explain the method of calculation of Gibbs free energy change from.
 - i) Equilibrium constant.
 - ii) From standard reaction potential.

Q4) Answer any two of the following :

[16]

- a) Explain transmission electron microscope with schematic diagram of TEM.
- b) Explain principle, construction and working of G.M. counter.
- c) Discuss vibration spectra of simple harmonic oscillator.

Q5) a) Explain principle, construction and working of IR spectrometer, [8]
b) Explain principle, construction and working of pH meter. [8]

OR

- a) State and explain Pauli's exclusion principle. Apply it to determine the maximum number of electron that can exist in a shell.
- b) Explain the terms
 - i) Resting potential
 - ii) Action potential



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