

Q.3. Answer the following :

 $7 \times 2 = 14$

- (a) Briefly describe the principles of Phase Contrast Microscopy
- (b) Write the principles and applications of different types of Spectroscopy
- Q.4. Answer the following:

 $7 \times 2 = 14$

- (a) Write a short note on Transmission Electron Microscopy (TEM)
- (b) Write a note on few fixative mixtures.

Q.5. Answer the following (any two):

 $7 \times 2 = 14$

- (a) Describe the principles and applications of Autoradiography
- (b) Describe the principles and applications of SEM
- (c) Write a short note on the principles and applications of NMR and ESR
- (d) Write a note on isoelectric focussing and its applications