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10BT763

Seventh Semester B.E. Degree Examination, Dec.2018/Jan.2019
Health Diagnostics

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part

PART – A

- 1 a. Discuss in detail chromosomal disorders. Write a note on their abnormalities. (10 Marks)
b. Write a note on :
i) Parasitic diseases ii) Infectious diseases. (10 Marks)
- 2 a. Explain the process of detecting sex chromosomal disorders with examples. (10 Marks)
b. Discuss Fluorescent in – site hybridization technique. Explain its advantages and uses in several DNA based diagnostics. (10 Marks)
- 3 a. Write a brief note on :
i) Ligation chain reaction ii) Spectral Karyotyping. (10 Marks)
b. What are in borne errors of metabolism? Discuss with examples. (10 Marks)
- 4 a. Explain Antibody and CD – markers as cell based diagnostics. (10 Marks)
b. Give an overview on :
i) FACS ii) Bio assay. (10 Marks)

PART – B

- 5 a. Discuss in detail the antigen – antibody reactions, with examples. (10 Marks)
b. Write a note on :
i) Enzyme conjugates ii) Radio immune assay. (10 Marks)
- 6 a. Explain in detail about the types of scan performed in radiology department. (10 Marks)
b. Discuss about planning and organization of imaging services in hospital. (10 Marks)
- 7 a. Discuss about process of assay development and its validation. (10 Marks)
b. Give an over view on data analysis , documentation and registration. (10 Marks)
- 8 a. Define Biosensors. Explain its application in personal diabetes management. (10 Marks)
b. Describe in detail role of biochips in disease diagnosis. (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.