

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain Gamma camera in detail with block diagram.

Q.24 What is DSA ? Explain it with block diagram.

Q.25 What do you mean by SPCET ? Explain it with black diagram description.

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4th Sem / Medical Electronics

Subject : Advanced Medical Imaging Techniques

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which has smallest wavelength in Em spectrum-
- a) Infrared
 - b) Microwave
 - c) Radio wave
 - d) X - rays
- Q.2 A dark focus on plain x-ray image is called
- a) Hypoechoic
 - b) Hypodense
 - c) Hypointense
 - d) Radiolucency
- Q.3 Most common type of film used to record CT image is
- a) Single Emulsion
 - b) Double Emulsion
 - c) Triple Emulsion
 - d) None
- Q.4 During spiral CT scan , the motion of couch is
- a) Stationary
 - b) Roatatrory
 - c) Continuously
 - d) Steplike

Q.5 A light focus on plain x-ray image is called

- a) Hyperchoic
- b) Hyperintense
- c) Hyperdense
- d) Radiopacity

Q.6 Which of the following parameter is measured by strain gauge

- a) Pressure
- b) Temperature
- c) Height
- d) Displacement

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Transmittance

Q.8 Telemedicine

Q.9 Expand EBT

Q.10 Expand NMR

Q.11 Expand SPECT

Q.12 Angiogram

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Explain EBT scanner with diagram description

Q.14 Explain Radioactive decay.

Q.15 Write a note on Radioactive and radioactive particles.

Q.16 Explain scintillaric detector.

Q.17 Explain advantages of DSA system.

Q.18 Write a note on medical Thermograph.

Q.19 Explain stochastic and non-stochastic effects of radiation safety.

Q.20 Explain ionizing and non-ionizing radiation.

Q.21 Write a note on pyroelectric vidicon.

Q.22 Write a note on maintenance of X-ray machine.