

- (ix) State that which type of beam is used by 3rd & 4th generation CT Scan? Select the correct option.
- a) Multiple X-ray beam
b) Narrow Fan Beam
c) Pencil beam of X-rays
d) Broad fan beam
- (x) What type of beam is used by 5th generation CT Scan? Select the correct option.
- a) Multiple X-ray beam
b) Broad fan beam
c) Narrow Fan Beam
d) Pencil beam of X-rays
- (xi) Recognize in CT Scan the 1st generation is?
- a) Rotate-rotate type
b) Translate-rotate type
c) Stationary-rotate type
d) None of these
- (xii) Recognize in CT Scan the 2nd generation is?
- a) Rotate-rotate type
b) Stationary-rotate type
c) Translate-rotate type
d) None of these
- (xiii) Recognize in CT Scan the 3rd generation is?
- a) Rotate-rotate type
b) Translate-rotate type
c) Stationary-rotate type
d) None of these
- (xiv) Recognize in CT Scan the 4th generation is?
- a) Rotate-rotate type
b) Stationary-rotate type
c) Translate-rotate type
d) None of these
- (xv) Select the correct option: What is a Pitch?
- a) Couch movement each 360 degree added by slice thickness
b) Couch movement each 360 degree Multiplied by slice thickness
c) Couch movement each 360 degree divided by slice thickness
d) None of these

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe the display of CT images? (3)
3. How CT Scan Produce data for image formation? (3)
4. Write a short note on NCCT Abdomen. (3)
5. What is window width? (3)
6. Explain how x-rays are captured in PSP? (3)

OR

Express RIS? (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Explain CT Brain protocol. (5)
8. Explain CBCT and its clinical application. (5)
9. Explain the processing technique in CT Scan. (5)
10. Explain MRI Brain Protocols. (5)
11. Describe the various generations of CT scan using its diagram. (5)
12. Write notes on thorax CT. (5)

OR

Write short notes on factors affecting image quality in CT scans and post-processing techniques also. (5)
