

**The West Bengal University of Health Sciences**  
**M.D. (Radio-Diagnosis) July - August, 2021 Examination**

Paper: I

Full Marks: 100

Time: 3 Hours

*Attempt all questions*

1. Discuss the biological effects of radiation. What are the AERB guidelines for radiation safety ? 6+4
2. Describe the principles of MD CT & various reconstruction methods. What are the techniques of radiation dose reduction? 4+3+3
3. Discuss the radiological anatomy of shoulder joint. 10
4. Discuss about the radiographic contrast media. 10
5. Describe in detail the various components of X-ray tube with a schematic diagram. What is X-ray and how it is produced? 6+4
6. What is growth plate ? Discuss imaging of growth plate disorders and Salter-Harris classification of fractures . 2+4+4
7. Discuss radiological anatomy of neck spaces & lymph nodes. 6+4
8. Discuss about the radiological anatomy of CV junction. 10
9. Write short notes on: 5+5
  - a) Harmonic imaging
  - b) Wedge filter
10. Write in detail the radiographic techniques of the following with a schematic diagram-
  - a) Towne's View
  - b) Skyline view of patella5+5