

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

**B.Sc. Allied Health Sciences Second Year (Semester-IV)**

**July -2019 Examination**

**B.Sc. Imaging Technology (IMT)**

**Time : 2.30 Hrs.**

**[Max. Marks : 80]**

**Paper – I**

**Radiographic Technique**

**Q.P Code : AHS-112**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Write in detail about radiation protection.
2. Describe in detail the technique of radiography of the skull, when –
  - a) Patient has had trauma.
  - b) When there is a fracture in the floor of the Orbit.

**SHORT ESSAY (Answer any Six)**

**6 X 5 = 30 Marks**

3. Basic views of mandible.
4. Plain radiographs for suspected nasal bone fracture.
5. Basic Views for ankle joint.
6. Plain radiography in suspected torn ligament of patella.
7. AP and Lateral hip radiography imaging in a case of Hip dysplasia.
8. Radiographic views in case of suspected fracture of cervical spine.
9. Radiographic imaging of Sulcus Tarsi.
10. Radiograph of Erect Abdomen.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Subtalar view.
12. Plain radiographic demonstration of jugular foramen.
13. Right shoulder joint-transaxial view.
14. Radiographic views of left clavicle.
15. Radiographic demonstration of calcaneal Spur.
16. Strykers view.
17. Filter.
18. Carpal Tunnel view.
19. Von Rosen view.
20. Cones.
21. Water's View.
22. Apical Lordotic View.

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**Paper – II**

**Radiographic Photography and Image Processing**

**Q.P Code : AHS-113**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. How do you plan a dark room for large hospital? Describe its location, construction of dark room.
2. Explain with neat diagram of X-ray film and use of each layer. How do you store film materials?

**SHORT ESSAY (Answer any Six)**

**6 X 5 = 30 Marks**

3. Construction of cassettes.
4. Latent image.
5. Chemistry of image formation.
6. Computer radiography.
7. Film faults.
8. Intensifying screens.
9. Automatic processor.
10. Washing and drying of films.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Types of X-Ray films.
12. Film density.
13. Developer.
14. Care of cassettes.
15. Speeds of film.
16. Fixer.
17. Safe light.
18. Sharpness of image on radiography.
19. X-ray film washing after fixing.
20. Magnification and minification of images.
21. Penumbra.
22. Replinisher.

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