

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

(A DEEMED TO BE UNIVERSITY)

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

February / March -2018 Examination

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

Time : 2.30 Hrs.

[Max. Marks : 80]

**Paper – I**

**Radiographic Techniques**

**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. Responsibility of radiographer and imaging technologists in the department.
2. Projections of abdomen.

**SHORT ESSAY (Answer any Six)**

**6 X 5 = 30 Marks**

3. Projections of scaphoid.
4. Cervical spine.
5. Intra oral and extra oral projection.
6. Supplementary projections of abdomen.
7. Projections of mandible.
8. Bitewing radiography.
9. Routine projections of ankle joint.
10. Scoliosis and kyphosis.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Intra oral projection.
12. Water's view.
13. Congenital dislocation of hip arthrodesis.
14. Projection for nasal bone.
15. Use of cones and grids.
16. Radiography Stenver's Method.
17. Olecranon process.
18. Supplementary projections for localization of roots.
19. Routine projection of femur.
20. Supplementary projection of acetabulum.
21. Name the axial ( Supplementary) projections of patella..
22. Radiation protection.

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**Paper – II**

**Radiographic Photography and Image Processing**

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

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*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. What is the ideal structure of X ray film? Mention the types of X ray films and write about color sensitivity.
2. What is the dark room? Write in detail about the planning of ideal dark room in major hospital.

**SHORT ESSAY (Answer any Six)**

**6 X 5 = 30 Marks**

3. What is intensification factor and resolving power of intensifying screens?
4. Construction of X ray cassettes.
5. Automatic processor.
6. Principles and processing of digital radiography.
7. Factors affecting the sharpness of the image.
8. Developer.
9. Objects and methods of washing and drying.
10. What are the types of stains, causes and its prevention.

**SHORT ANSWERS (Answer any Ten)**

**10 X 3 = 30 Marks**

11. Graininess of films.
12. TLD dosimetry.
13. Care of cassettes.
14. Dry bench.
15. Characteristic curves.
16. Phosphors.
17. Chemistry of image formation.
18. Fogging in films.
19. Long scale.
20. Rinsing.
21. Day light film handling.
22. Types of paper used for printing films.