

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

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

February 2019 Examination

B.Sc. Imaging Technology

Time : 3 Hrs.

[Max. Marks : 100]

Paper-I

Basic Radiographic and Fluoroscopy

Q.P Code : J4380

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

- 1 Discuss in detail the preparation of room, apparatus and instruments used in radiography. (3 + 3 + 4)
- 2 Describe in detail AP and Lateral hip radiography imaging. (5 + 5)
 - a) In a case of Hip dysplasia.
 - b) Fracture in the neck of femur.

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

- 3 Discuss the routine projections of LS spine.
- 4 Discuss the positioning and technique for (2.5 + 2.5)
 1. Caldwell's view
 2. Modified Water's view
- 5 a) Mention the views for x-ray of thumb (2).
b) Mention the views for shoulder joint (3)
- 6 Principles and processing of digital radiography.
- 7 Discuss the routine projections of knee joint
- 8 Discuss the steps to mount intensifying screens inside the cassette.
- 9 Discuss about formation of latent image.
- 10 Discuss the construction of intensifying screen.
- 11 Discuss about various types of grids.
- 12 How to perform x-ray of PNS for a patient who cannot be placed in prone position?
- 13 Describe in detail the different views for cervical spine radiography.
- 14 Describe the composition and function of lead glass and lead apron.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

- 15 Preparation for KUB x-rays.
- 16 Discuss the role of cones in radiography.
- 17 Auto Transformer.
- 18 Enumerate the properties of intensifying screen.
- 19 Mention the views to be taken in ankle radiography.
- 20 How is apicogram or lordotic view of chest performed?
- 21 Mention hanger markings.
- 22 What should be the temperature of dark room?
- 23 What happens if fixation of radiograph is omitted during development of x-ray films?
- 24 Curling of film occurs in which type of x-ray films?
- 25 Processing of cut films and roll films.
- 26 Enumerate type of x-ray films.

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Paper-III

Special Procedures with contrast media reactions and Management

Q.P Code : J4400

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

- 1 Discuss in detail hysterosalphingography.
- 2 Classification of iodinated contrast agents and discuss about adverse effects of water soluble intravenous contrasts.

SHORT ESSAY (Answer any Ten)

10 X 5 = 50 Marks

- 3 Write short notes on barium swallow.
- 4 Write a note on barium enema.
- 5 Discuss hysterosalphingography.
- 6 Lumbar myelography.
- 7 Micturating cystourethrography.
- 8 Dacryocystography.
- 9 CT enteroclysis.
- 10 What are the uses of fluoroscopy?
- 11 T-tube cholangiogram.
- 12 Indications and contra-indications of ascending urethrogram.
- 13 Discuss in brief commercially available ultrasound contrast media.
- 14 Complications of femoral artery catheterization (due to contrast media and technique)

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

- 15 Describe stereoradiography.
- 16 Invertogram.
- 17 Discuss on extravasation.
- 18 Catheters used in angiography.
- 19 Colostomy enema.
- 20 Contrast used in Myelogram.
- 21 Describe Sialography.
- 22 Negative contrast media and their uses.
- 23 Write short notes on fistulography
- 24 Evacuation proctography.
- 25 ALARA.
- 26 Ten day rule.