

August, 2015

**STATE MEDICAL FACULTY OF WEST BENGAL**

**Final Examinations  
for Diploma in Radiography (Diagnostic) : DRD (Tech) Course**

**Paper – I**

**Radiographic Anatomy, Radiographic Technique, Radiographic Photography and Darkroom Technique, Care And Maintenance of Equipment, First Aid, Basic Nursing, Handling of patients, Medical Ethics and Administration, Drugs in Radiography.**

Time : 3 Hours

Full Marks : 80

*Question 1 is Compulsory.*

*Answer any Two from Question No. 2 to 5 and any Four from Question No. 6*

Q-1) Mark (✓) for the correct Answer:

**10x1 = 10**

- i) Sialography is an investigation for:  
a) Thyroid gland  
b) Bronchus  
c) Salivary gland  
d) Fallopian tube
- ii) In CT scan, HU number of water is:  
a) - 1000  
b) - 20  
c) 0  
d) + 1000
- iii) Investigation of choice for imaging the spinal cord:  
a) X-ray  
b) USG  
c) CT  
d) MRI
- iv) In mammogram target anode is made up of:  
a) Aluminium  
b) Copper  
c) Molybdenum  
d) Tungsten
- v) Composition of developer includes all the following, except:  
a) Hydroquinone  
b) Acetic acid  
c) Sodium sulphite  
d) Potassium bromide
- vi) Double coated film is used in all o the following, except:  
a) X-ray  
b) CT scan  
c) USG  
d) MRI scan
- vii) HSG is usually done ..... day of menstruation:  
a) 1<sup>st</sup> day  
b) 3<sup>rd</sup> day  
c) 7 to10 days  
d) 22 to 25 days
- viii) All of the following has Radiation hazards, except:  
a) Digital X-ray  
b) Colour Doppler  
c) CT scan  
d) PET CT scan
- ix) Best sequence of MRI to detect calcification:  
a) GRE  
b) T1 weighted  
c) T2 weighted  
d) T2 Flair
- x) Investigation of choice to detect intracerebral AVM:  
a) MRI scan  
b) CT Angiography  
c) MRI Angiography  
d) Digital Subtraction Angiography

**Contd.....P2/**

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**2x20 = 40**

Q2. Describe in brief the anatomy of duodenal 'C' loop. Describe the preparation and technique of barium meal X-ray study of stomach and duodenum.

6+14 = 20

Q3. Describe with diagram the parts of urinary system of an adult male. Describe how MCU is performed in an adult male. What are the indications and contra-indications?

8+6+6 = 20

Q4. Discuss with diagram the anatomy of female breast. What are the investigation procedures for female breast? How a mammography X-ray machine differs from a normal X-ray machine.

8+6+6 = 20

Q5. Compare computed radiography (C.R.) and digital radiography (D.R.). Write the advantages of D.R. over computed radiography. What is PACS?

8+8+4 = 20

Q6. Write short notes on (**Any Four**):-

**4 x 7½ = 30**

- a) Skyline view of patella
- b) Right lateral decubitus view of chest
- c) ALARA
- d) HRCT scan of Temporal bone
- e) Circle of Willis
- f) Non-ionic contrast media.

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Answers to Q1 [MCQ Type of questions]:-

- |       |   |
|-------|---|
| i)    | c |
| ii)   | a |
| iii)  | d |
| iv)   | a |
| v)    | b |
| vi)   | b |
| vii)  | d |
| viii) | b |
| ix)   | d |
| x)    | c |

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