



BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(MRIT)-2022/B.Sc.(MRIT)-2023

Course Name – Contrast & Special Radiography Procedures

Course Code - BMRITS304

(Semester III)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Identify the primary purpose of using lead shielding during a radiological procedure:
 - a) To make the equipment more durable
 - b) To reduce radiation exposure to the patient
 - c) To increase the weight of the imaging equipment
 - d) To improve image quality
- (ii) Identify the primary responsibility of a radiographer when preparing contrast agents for a procedure
 - a) To ensure the contrast agent is at room temperature
 - b) To choose the most colorful contrast agent
 - c) To administer the contrast agent without patient consent
 - d) To verify the correct contrast agent, dose, and patient allergies
- (iii) Choose which contrast media is commonly used for MRI scans to enhance the contrast of soft tissues like the brain and muscles?
 - a) Iodinated contrast
 - b) Barium sulfate
 - c) Gadolinium-based contrast
 - d) Oil-based contrast
- (iv) Infer what can happen if a patient is allergic to iodine and receives iodinated contrast?
 - a) Increased image quality
 - b) No adverse reactions
 - c) Enhanced pain relief
 - d) Allergic reactions like rash or difficulty breathing
- (v) Omit the route of contrast administration
 - a) Oral
 - b) Intramuscular
 - c) Intravenous
 - d) Enema
- (vi) Identify the primary role of barium swallow
 - a) Assessing lung function
 - b) Evaluating heart health
 - c) Examining the gastrointestinal tract
 - d) Measuring bone density
- (vii) Identify the medical imaging technique that is commonly combined with hypotonic duodenography to obtain a comprehensive view of the gastrointestinal tract

- a) Magnetic resonance imaging (MRI)
 c) Positron emission tomography (PET)
 (viii) Enumerate the full form of IVU
 a) Intravenous urethrography
 c) Intravenous Urography
 (ix) Identify the correct sequence of the film during IVP
 a) 1min, 5mins, 15mins, prone, 30-45mins
 c) 1mins, 10mins, 20mins, 60mins
 (x) Choose the correct option for Micturating Cystourethrogram
 a) Patient is instructed to hold their breath.
 c) Patient is instructed to drink a contrast solution.
 (xi) Identify the term "cysto-" in "cystogram".
 a) Liver
 c) Heart
 (xii) Identify the name of a given Special radiographic procedure.
 a) Barium Swallow
 c) Bronchography
 (xiii) Enumerate the full form of ERCP.
 a) Endoscopic Retrograde Contrast Pancreatography
 c) Enhanced Retrograde Cholangiopancreatography
 (xiv) Write the correct answer for "ERCP"
 a) Endoscopic Retrograde Cholangiopancreatography
 c) Endoscopic Ultrasound
 (xv) List the meaning of cholangiography
 a) Study of the lungs
 c) Study of the heart
 b) Computed tomography (CT)
 d) Ultrasound
 b) Intravenous Ureterography
 d) Intravenous Urethralgraphy
 b) 5mins, 30mins, and 60mins
 d) None of these
 b) Patient is instructed to Perform physical exercises.
 d) Patient is instructed to Urinate while being monitored with imaging.
 b) Urinary bladder
 d) Lungs
 b) Barium Meal
 d) Barium Enema
 b) Endoscopic Retrograde Cholangiopancreatography
 d) Endoscopic Retrograde Contrast pyelography
 b) Esophagogastroduodenoscopy
 d) Endoscopic Retrograde Colonic Polypectomy
 b) Study of the bile ducts
 d) Study of the kidneys

Group-B

(Short Answer Type Questions)
 (Answer any Five from the following)

3 x 5 = 15

2. Write a note on 10 day rule 28 days rule (3)
3. Differentiate between single and double contrast study in barium studies of Gastrointestinal tract (3)
4. Describe the indications of sialography. (3)
5. Discuss the various indications of Barium Meal study (3)
6. Summarize the technique of Bronchography. (3)

OR

Explain the indications of Endoscopic retrograde cholangio-pancreatography (ERCP) (3)

Group-C

(Long Answer Type Questions)
 (Answer any Six from the following)

5 x 6 = 30

7. Explain Ductography (5)

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8. Classify the difference between Anaphylactoid and Non-Anaphylactoid Reactions (5)
9. Explain BIRADS. (5)
10. Explain the procedure of Intravenous Cholangiography. (5)
11. Explain in detail about ideal properties of contrast media (5)
12. Explain in detail about crash cart. (5)

OR

Explain anatomy, contraindication, indication, risk factor of hysterosalpingography. (5)

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