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Term End Examination 2025-2026**Programme – B.Sc.(MRIT)-2022/B.Sc.(MRIT)-2023/B.Sc.(MRIT)-2024****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) Infer about the patient's preparation before a barium meal follow-through.
 - a) Fasting is not required
 - b) A clear liquid diet is recommended
 - c) A heavy meal is suggested
 - d) Only solid foods should be consumed
- (ii) Identify the role of fluoroscopy during the barium meal follow-through procedure
 - a) To take X-ray images
 - b) To record the patient's vital signs
 - c) To provide real-time imaging of the GI tract
 - d) To monitor the patient's heart rate
- (iii) Choose the potential risk associated with a barium meal and follow through
 - a) Allergic reaction to barium
 - b) Elevated blood pressure
 - c) Improved digestion
 - d) Enhanced sense of taste
- (iv) Infer about the duration of the procedure of barium meal
 - a) It typically takes several minutes
 - b) It can last for several hours
 - c) It is completed within seconds
 - d) It is usually done overnight
- (v) Select the procedure done to rule out Obstructive jaundice
 - a) Intravenous cholangiography
 - b) T tube cholangiography
 - c) All of these
 - d) None of these
- (vi) Identify the parts of urinary bladder
 - a) Apex
 - b) Body
 - c) Fundus
 - d) All of these
- (vii) Define the term "Radiographic Contrast" in radiology:
 - a) The difference in price between different imaging facilities
 - b) The use of various colors in radiological images
 - c) The difference in density between adjacent areas in an image
 - d) The level of comfort a patient experiences during a procedure
- (viii) Cite what is a barium enema primarily used to diagnose

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| <p>a) Kidney stones</p> <p>c) Colorectal conditions</p> <p>(ix) Identify the appropriate attire for a radiographer during a radiological procedure</p> <p>a) Casual clothing</p> <p>c) White coat and tie</p> <p>(x) Select the essential aspect of patient communication during a radiological procedure:</p> <p>a) Discussing personal matters</p> <p>c) Sharing radiographer's opinions</p> <p>(xi) Choose the correct advantages of IVU procedure</p> <p>a) Detailed anatomy of the collecting systems</p> <p>c) Sensitive for acute obstruction</p> <p>(xii) Identify the type of contrast agent is typically used in sialography.</p> <p>a) Barium sulfate</p> <p>c) Gadolinium</p> <p>(xiii) Choose the common indication of intravenous cholangiography.</p> <p>a) Brain tumor evaluation</p> <p>c) Assessment of biliary obstructions</p> <p>(xiv) Indicate the part of the digestive system for which ERCP is primarily used.</p> <p>a) Stomach</p> <p>c) Liver</p> <p>(xv) Relate during ERCP, which instrument is used to inject contrast dye into the biliary and pancreatic ducts for imaging?</p> <p>a) An ultrasound machine</p> <p>c) A stethoscope</p> | <p>b) Gallbladder disease</p> <p>d) Heart disease</p> <p>b) Scrubs and a lead apron</p> <p>d) Any comfortable clothing</p> <p>b) Providing clear instructions and reassurance</p> <p>d) Avoiding eye contact</p> <p>b) Demonstration of major calcification</p> <p>d) All of these</p> <p>b) Iodine-based contrast</p> <p>d) Carbon dioxide</p> <p>b) Detection of colon polyps</p> <p>d) Monitoring cardiac function</p> <p>b) Small intestine</p> <p>d) Biliary and pancreatic ducts</p> <p>b) A catheter</p> <p>d) A blood pressure cuff</p> |
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Group-B

(Short Answer Type Questions)

3 x 5=15

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| 2. Describe the common complications of barium enema. | (3) |
| 3. Explain in detail about the patient preparation of IVP procedure. | (3) |
| 4. Write a short note on indications of Bronchography. | (3) |
| 5. Write about indications, patient preparation and materials used for PTC procedure. | (3) |
| 6. Explain in detail about water soluble contrast media. | (3) |

OR

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| Explain the difference between positive and negative contrast agents. | (3) |
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Group-C

(Long Answer Type Questions)

5 x 6=30

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| 7. Explain post operative cholangiography in detail. | (5) |
| 8. Explain about RETROGRADE PYELOGRAPHY. | (5) |
| 9. Explain Peroperative Cholangiography. | (5) |
| 10. Explain in detail about imitations of mammography. | (5) |
| 11. Illustrate the difference between single and double contrast media. | (5) |
| 12. Write in detail about ERCP. | (5) |

OR

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| Write Indication, contraindication, contrast media, procedure of bronchography. | (5) |
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