



BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Physiotherapy-2021/B.Physiotherapy-2022

Course Name – Introduction to Diagnostic Radiology

Course Code - BPTS503

(Semester V)

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) Choose the primary goal of radiology

- | | |
|--------------------------------------|-------------------------------|
| a) Identify diseases | b) Choose treatment options |
| c) Select the best imaging equipment | d) Infer patient demographics |

(ii) Select the medical imaging technique which is commonly used to evaluate bone fractures

- | | |
|----------|---------------|
| a) MRI | b) PET-CT |
| c) X-RAY | d) ULTRASOUND |

(iii) Choose the appropriate imaging modality for assessing soft tissue structures like the brain and spinal cord

- | | |
|----------------|-------------|
| a) X-ray | b) MRI |
| c) Fluoroscopy | d) PET scan |

(iv) Select the standard radiographic view for evaluating the lung pathology

- | | |
|------------------------------|------------------------------|
| a) Anteroposterior (AP) view | b) Lateral view |
| c) Oblique view | d) Posteroanterior (PA) view |

(v) Select who is often credited with the discovery of X-rays in 1895

- | | |
|------------------|---------------------|
| a) Thomas Edison | b) Wilhelm Roentgen |
| c) Marie Curie | d) Albert Einstein |

(vi) Select who is often attributed to computed tomography (CT) scanning

- | | |
|---------------------------|-----------------|
| a) Sir Godfrey Hounsfield | b) Enrico Fermi |
| c) Robert H. Goddard | d) Edwin Hubble |

(vii) Label radiographic view is most useful for detecting fractures of the scaphoid bone

- | | |
|------------------------------|------------------|
| a) Anteroposterior (AP) view | b) Lateral view |
| c) Oblique view | d) Axillary view |

- (viii) Cite which of the following is not a common view in elbow radiography
- | | |
|-------------------|------------------|
| a) AP view | b) Lateral view |
| c) Supinator view | d) Scaphoid view |
- (ix) List type of transducer is most commonly used in medical ultrasound imaging.
- | | |
|----------------------------|------------------------------------|
| a) Linear Transducer | b) Curvilinear (Convex) Transducer |
| c) Phased Array Transducer | d) All of these |
- (x) Air is visualizedon plain film radiography
- | | |
|----------|-----------|
| a) Dark | b) White |
| c) Green | d) Yellow |
- (xi) Select the correct option in case of cervical vertebral injured patient (trauma patient)
- | | |
|-------------------------------|---------------------------------|
| a) Lateral vertical beam used | b) Lateral horizontal beam used |
| c) Both (1) and (2) | d) None of these |
- (xii) Identify the view of the shoulder to shows the greater tubercle in profile?
- | | |
|----------------------|----------------------|
| a) External rotation | b) Internal rotation |
| c) Neutral | d) Transthoracic |
- (xiii) Select the another name for the seventh cervical vertebra is
- | | |
|----------|-----------------------|
| a) Atlas | b) Dense |
| c) Axis | d) Vertebra prominens |
- (xiv) Choose the correct for routine projection for L S Spine
- | | |
|-------------------|------------|
| a) AP | b) LATERAL |
| c) Both (1) & (2) | d) Oblique |
- (xv) Frog's Legs position is done to examine_____
- | | |
|-------------|--------------------|
| a) Femur | b) Symphysis pubis |
| c) Both hip | d) None of these |

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Discuss the importance of radiology in diagnosing various medical conditions. (3)
3. List all the Indications for chest X-Ray (3)
4. Write a short note on BI-RADS. (3)
5. Write a short note on Acute abdomen x-rays series with diagram. (3)
6. Write about the common indications for wrist radiography. (3)

OR

Report some common indications and patient preparation for skull x rays (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Discuss about the basic views of Lumbar spine with indication, anatomy, cassette size in detail. (5)
8. Explain Fracture healing in detail. (5)
9. Explain Types of Fracture's in chest. (5)
10. Explain about BIRADS. (5)
11. Differentiate between screening and diagnostic mammography. (5)
12. Write the patient positioning of AP and PA views of chest and also discuss their significance and anatomy included. (5)

OR

Write about the basic projections of the abdomen. (5)