



**AMREF INTERNATIONAL UNIVERSITY  
SCHOOL OF MEDICAL SCIENCES  
DEPARTMENT OF NURSING & MIDWIFERY SCIENCES  
END OF SEMESTER MAY-AUGUST 2024 EXAMINATIONS**

**COURSE CODE AND COURSE TITLE: BSN 313: MEDICAL SURGICAL NURSING III**

**DATE:**

Duration: 2 HOURS

Start: 9:00 AM

Finish: 11:00 AM

**INSTRUCTIONS**

1. This exam is out of 70 marks
2. This Examination comprises THREE Sections. Section I: Multiple Choice Questions (20 marks)  
Section II: Short Answer Questions (30 marks) and Section III: Long Answer Questions (20 marks)
3. Answer ALL Questions.
4. Do Not write anything on the question paper -use the back of your booklet for rough work if need be.

**SECTION I: MULTIPLE CHOICE QUESTIONS****(20 MARKS)**

1. Intra articular fractures are easily diagnosed by:
  - A. Plain X-ray
  - B. Magnetic Resonance imaging
  - C. ultrasound
  - D. Biopsywrite
2. The following disease cannot increase the chances of getting osteomalacia;-
  - A. Celiac disease
  - B. Crohns disease
  - C. Ulcerative colitis
  - D. Rhabdomyosarcoma
3. A fracture of the atlas;
  - A. Jefferson's fracture
  - B. Lead pipe fracture
  - C. Duverney fracture
  - D. Complete fracture
4. Grade II open Fracture;
  - A. A clean wound less than 1 cm long.
  - B. A dirty wound >1 cm long with extensive tissue damage
  - C. A dirty wound < 1cm long with extensive tissue damage
  - D. is a larger wound (>1cm) without extensive soft tissue damage, clean.
5. Best radiologic investigation to diagnose intra articular fracture
  - A. Plain x ray
  - B. Computer Tomography scan
  - C. Magnetic Resonance imaging
  - D. Mammogram
6. The following disease effect of systemic lupus erythematosus is associated with spontaneous abortion;-
  - A. cardiac disease
  - B. kidney disease
  - C. antiphospholipid antibodies
  - D. serous membrane.
7. The following is the primary cause of osteomalacia in adults;-
  - A. Vitamin K deficiency
  - B. Vitamin D deficiency
  - C. Calcium deficiency
  - D. Phosphorus deficiency

8. The following joints are mostly affected in patients with Osteoarthritis;-
  - A. Ankle, feet and spine
  - B. Knees, feet and spine
  - C. Hands, knees, and hips
  - D. Neck, shoulder, ankle
  
9. The health promotion activity that supports a healthy lifestyle for a client with osteoarthritis is;-
  - A. Maintain normal weight
  - B. Using proper body mechanics
  - C. Increase dietary intake of calcium
  - D. Using soft chair and recliner for rest
  
10. A patient with osteoarthritis complains that she cannot manage her household tasks without pain. The appropriate nursing diagnosis is;-
  - A. Ineffective coping, related to pain
  - B. Risk for disuse syndrome
  - C. Impaired physical mobility, related to pain
  - D. Activity intolerance, related to pain
  
11. Patient with rheumatoid arthritis is on disease modifying antirheumatic drugs (DMARD). The mode of action of this medication is;-
  - A. Retards the progress of the disease
  - B. Builds new bone
  - C. Decreases inflammation
  - D. Increases flexibility
  
12. The instruction a nurse should include in teaching plan for a patient with carpal tunnel syndrome?
  - A. Anticoagulant and glucocorticoids
  - B. Methotrexate
  - C. Lubricating ointments
  - D. Splinting to prevent flexion and hyperextension
  
13. The following is a priority assessment immediately after total knee replacement;-
  - A. Degree of nausea and vomiting
  - B. Quality of pulse in the affected limb
  - C. Amount of pain
  - D. Understanding of the procedure
  
14. .... are responsible for building up the bone matrix while ..... are responsible for bone breakdown.
  - A. Osteocytes, osteoclasts
  - B. Osteoclasts, osteoblasts
  - C. Osteocytes, osteoblasts
  - D. Osteoblasts, osteoclasts

15. Systemic sclerosis is most common among which age group;-
- A. 6 month-3 years
  - B. 10 years- 16 years
  - C. 20 years -50 years
  - D. 60 years-75 years
16. The most common initial symptom of systemic includes which of the following;-
- A. Renaud syndrome
  - B. Dyspnoea
  - C. Heartburn
  - D. Dysphagia
17. The following benign bone tumor has the tendency to recur after excision;-
- A. Chondromyxofibromas
  - B. Benign giant cell tumors of the bone
  - C. Osteochondromas
  - D. Osteoid osteomas
18. The following signs on physical examination most indicative of carpal tunnel syndrome?
- A. Froment
  - B. Jeanne
  - C. Tinel
  - D. Wartenberg
19. Gout is:
- A. More prevalent in patients aged 75years and above
  - B. A chronic non-inflammatory condition
  - C. An acute inflammation
  - D. A highly infectious condition
20. The following is the most common primary malignant tumor among older adults;-
- A. Multiple myeloma
  - B. Osteosarcoma
  - C. Lymphoma of the bone
  - D. Giant cell tumors

**SECTION II: SHORT ANSWER QUESTIONS**

**(30 MARKS)**

1. Briefly describe the pathophysiology of Systemic lupus Erythematosus putting consideration on the causative agents (8 marks)
2. Outline six factors that are associated with more severe prognosis in patients with scleroderma (6 marks)
3. Outline three differences between Rheumatoid arthritis and osteoarthritis (6 marks)
4. Briefly describe three phases of bone healing (6 marks)
5. Outline three types of spondyloarthropathies (4 marks)

**SECTION III: LONG ANSWER QUESTION –**

**(20 MARKS)**

1. Mrs. Jenifer arrives at the emergency Unit and reports that she was doing morning exercises and suddenly felt some pain on the foot. Ex-ray confirmed fractured left metatarsal bone.

- a. Identify the type of fracture above (2 marks)
- b. Discuss four (4) classification of fractures (8 marks)
- c. Discuss five (5) nursing interventions to Mrs. Jenifer if a cast was applied on the foot for immobilization (10 marks)

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