



**AMREF INTERNATIONAL UNIVERSITY
SCHOOL OF MEDICAL SCIENCES**

DEPARTMENT OF NURSING AND MIDWIFERY SCIENCES

BACHELOR OF SCIENCE IN NURSING

END OF SEPTEMBER-DECEMBER TRIMESTER 2022 EXAMINATIONS

BSN 313 MEDICAL SURGICAL NURSING III

DATE: 1ST DECEMBER 2022

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

Choose the most correct response

1. The client at the greatest risk of developing osteoporosis is:
 - A. A 25-year-old woman who runs
 - B. A 36-year-old man who has asthma
 - C. A 70-year-old man who consumes excess alcohol
 - D. A sedentary 65-year-old woman who smokes cigarette
2. The first intervention that the nurse who witnesses a vehicle hit a pedestrian and sustains a fracture on their leg is:
 - A. Try to reduce the fracture manually.
 - B. Assist the victim to get up and walk to the sidewalk.
 - C. Leave the victim for a few moments to call an ambulance.
 - D. Stay with the victim and encourage him or her to remain still.
3. The findings observed by the nurse evaluating a patient on skeletal traction which should be of most concern is:
 - A. Redness around the pin sites
 - B. Pain on palpation at the pin sites
 - C. Thick, yellow drainage from the pin sites
 - D. Clear, watery drainage from the pin sites
4. While assessing a patient with a casted extremity, the finding which would be indicative of infection is:
 - A. Dependent edema
 - B. Diminished distal pulse
 - C. Presence of a “hot spot” on the cast
 - D. Coolness and pallor of the extremity

5. A client has sustained a closed fracture and has just had a cast applied to the affected arm. The client is complaining of intense pain. The nurse elevates the limb, applies an ice bag, and administers an analgesic, with little relief. The cause of the pain is:
- A. Infection under the cast
 - B. The anxiety of the client
 - C. Impaired tissue perfusion
 - D. The recent occurrence of the fracture
6. Systemic lupus erythematosus (SLE) is characterized by:
- A. Destruction of nucleic acids and other self-proteins by autoantibodies
 - B. Overproduction of collagen that disrupts the functioning of internal organs
 - C. Formation of abnormal IgG that attaches to cellular antigens, activating complement
 - D. Increased activity of T suppressor cells with B-cell hypoactivity, resulting in an immunodeficiency
7. A client is being discharged home after application of a plaster leg cast. The statement that indicates that the client understands proper care of the cast is:
- A. "I need to avoid getting the cast wet."
 - B. "I need to cover the casted leg with warm blankets."
 - C. "I need to use my fingertips to lift and move my leg."
 - D. "I need to use something like a padded coat hanger end to scratch under the cast if it itches."
8. A client being measured for crutches asks the nurse why the crutches cannot rest up underneath the arm for extra support. The nurse responds knowing that the would most likely result from this improper crutch measurement.
- A. A fall and further injury
 - B. Injury to the brachial plexus nerves
 - C. Skin breakdown in the area of the axilla
 - D. Impaired range of motion while the client ambulates

9. A nurse is assessing a client who has a casted compound fracture of the right forearm. The findings that is an early indication of neurovascular compromise is:
- A. Paresthesia
 - B. Pulselessness
 - C. Paralysis
 - D. Pallor
10. A nurse is completing an assessment of a client who had an external fixation device applied 2 hr ago for a fracture of the left tibia and fibula. The finding indicative of compartment syndrome is:
- A. Intense pain when the left foot is passively moved
 - B. Edematous left toes compared to the right
 - C. Hard, swollen muscle in the left leg
 - D. Burning and tingling of the distal left foot
11. A nurse is completing discharge teaching to a client who had a wound debridement for osteomyelitis. The information that the nurse should include in the teaching is:
- A. Antibiotic therapy should continue for 3 months.
 - B. Relief of pain indicates the infection is eradicated.
 - C. Contact precautions are used during wound care.
 - D. Dressing changes are performed using aseptic technique.
12. A nurse is preparing a plan of care to prevent a client from developing flexion contractions following a below-the-knee amputation 24 hr ago. The action included in the plan of care is:
- A. Elevate the residual limb on a pillow.
 - B. Position the client prone several times each day.
 - C. Wrap the stump in a figure-eight pattern.
 - D. Encourage sitting in a chair during the day.

13. A client who had an above-the-knee amputation reports having sharp, stabbing type of phantom pain. The most appropriate action by the nurse is:
- A. Facilitate counselling services.
 - B. Encourage use of cold therapy.
 - C. Question whether the pain is real.
 - D. Administer an antiepileptic medication.
14. A client who has systemic lupus erythematosus (SLE) reports fatigue, joint tenderness, swelling, and difficulty urinating. The laboratory findings that the nurse should anticipate is:
- A. Positive anti-nuclear antibodies (ANA)
 - B. Increased haemoglobin
 - C. 2+ urine protein
 - D. Elevated blood urea nitrogen (BUN)
15. You are educating a client who has a new prescription for Prednisone. The information about the drug that you will include is:
- A. Hypotension can occur.
 - B. Weight loss is expected.
 - C. Loss of appetite may be present.
 - D. Moon facies may be evident.
16. You are caring for a client who has systemic lupus erythematosus (SLE) and is experiencing an episode of Raynaud's phenomenon. The clinical finding to expect in this patient is:
- A. Swelling of joints of the fingers
 - B. Pallor of toes with cold exposure
 - C. Feet become reddened with ambulation
 - D. Client report of intense feeling of heat in the fingers

17. You are in the outpatient department where you are assessing a client who has rheumatoid arthritis (RA). The client reports increased joint tenderness and swelling. The finding you should expect is:
- A. Decreased range of motion
 - B. Hyper salivation
 - C. Decreased blood pressure
 - D. Pain at rest
18. While having his height measured during a routine health examination, a 79-year-old man asks the nurse why he is “shrinking.” The best way to the decreased height that occurs with aging is:
- A. Decreased muscle mass results in a stooped posture.
 - B. Loss of cartilage in the knees and hip joints causes a loss of height.
 - C. Long bones become less dense and shorten as bone tissue compacts.
 - D. Vertebrae become more compressed with thinning of intervertebral discs.
19. The most common diagnostic test used to assess musculoskeletal disorders is:
- A. Myelogram
 - B. Standard X-ray
 - C. Arthroscopy
 - D. Magnetic resonance imaging (MRI)
20. You are caring for a patient who works on a computer 8 hours each day. The kind of repetitive strain injury would be expected in this patient is:
- A. Meniscus injury
 - B. Radial-ulnar fracture
 - C. Rotator cuff injury
 - D. Carpal tunnel syndrome

SECTION II: SHORT ANSWER QUESTIONS (30 MARKS)

Answer all questions

1. Differentiate between skeletal traction and skin traction (6 marks)
2. Differentiate between rheumatoid arthritis and osteoarthritis (6 marks)
3. Outline six (6) appropriate health messages that the nurse would share with clients having osteoporosis (6 marks)
4. Describe the post-operative nursing management after total hip replacement (6 marks)
5. Differentiate between two point and three point gait while using crutches (6 marks)

SECTION III: LONG ANSWER MARKS (20 marks)

1. Ms J. has been involved in a road traffic accident and has sustained a fracture of the left femur. She is admitted in the orthopedic ward.
 - a) Explain three (3) life threatening complications following a major fracture (6 marks)
 - b) Using the nursing process, describe the specific care and management of Ms Jennie (14 marks)