



**SECTION A: MULTIPLE ANSWER QUESTIONS**

**(20 MARKS)**

1. Achondroplasia is due to
  - A. FGFR4 gene mutation
  - B. Interleukin-1 (IL-1) mutation
  - C. FGFR3 gene mutation
  - D. COL1A1 gene mutation
2. The following are nurse action to patient with cast **except**
  - A. Monitor neurovascular status every hour for first 24 hours and assess pain.
  - B. Apply warm compression for 24 to 48 hr.
  - C. Handle the wet plaster cast with the palms, not fingertips.
  - D. Ensure weight bearing after the cast
3. The following are types of osteomyelitis **except**
  - A. Hematogenous osteomyelitis
  - B. Contiguous-focus osteomyelitis
  - C. Osteomyelitis with vascular insufficiency
  - D. Arthritis osteomyelitis
4. Stimulation of osteoblasts and inhibition of osteoclasts is under influence of
  - A. Progesterone
  - B. Estrogen
  - C. Parathyroid hormone
  - D. Testosterone
5. The most important factor of fracture healing is
  - A. Proper alignment
  - B. Proper reduction
  - C. Immobilization
  - D. Adequate calcium intake
6. The major rationale for the use of acetylsalicylic acid in the treatment of rheumatoid arthritis is to:
  - A. Reduce fever
  - B. Reduce the inflammation of the joints
  - C. Assist the client's range of motion activities without pain
  - D. Prevent extension of the disease process
7. Following application of a leg cast, the nurse will first check the client's toes for:
  - A. Increase in the temperature
  - B. Change in color
  - C. Edema
  - D. Movement

8. Small fluid filled sac made of fibrous tissues which provides cushion between bones is classified as
- A. Fascia
  - B. Tendon
  - C. Bursa
  - D. Cartilage
9. The primary nursing concern in a patient with a pelvic fracture is?
- A. Neurovascular compromise
  - B. Risk of hemorrhage
  - C. Risk of pulmonary embolism
  - D. Risk of pressure ulcers
10. The following statements are true about bone infection except
- A. Over 50% of bone infections are caused by Staph aureus
  - B. Gram-positive organisms like streptococci and enterococci are involved
  - C. Gram-negative organism like Pseudomonas, Klebsiella, Salmonella, and Proteus are not involved.
  - D. Staphylococcus aureus is minimally involved
11. In osteoarthritis, cartilage breaks down, causing bones to rub together. This results in all of the following, **except**:
- A. Redness and warmth over the affected joint
  - B. Pain
  - C. Stiffness
  - D. Loss of motion
12. As cartilage deteriorates in osteoarthritis, bone spurs can develop and grow near the end of the bone in the affected joint. Bone spurs are also called:
- A. Osteomyelitis
  - B. Osteopenia
  - C. Osteoporosis
  - D. Osteophytes
13. The type of osteoarthritis which is caused by obesity or an injury to the affected joint is known as:
- A. Primary arthritis
  - B. Secondary arthritis
  - C. Self-induced arthritis
  - D. None of the above

14. The diagnostic marker is most specific for rheumatoid arthritis?
- A. Antinuclear Antibody Test
  - B. Erythrocyte Sedimentation Rate
  - C. Rheumatoid factor (RF)
  - D. Anti-cyclic citrullinated peptide (anti-CCP)
15. High levels of uric acid in the blood can result in:
- A. An autoimmune response
  - B. Sharp needle-like crystals of monosodium urate deposited around the joints
  - C. Osteoarthritis
  - D. Rheumatoid arthritis
16. A client with skeletal traction. Which nursing intervention indicate proper care of the patient
- A. Ensure weight is placed firmly on the floor
  - B. Ensure pins are not loose and tighten accordingly
  - C. Inspect skin at least 8 hourly
  - D. Remove the weight only for bathing
17. A patient has been brought having been crushed by a tractor and sustained pelvic fracture, which of the following assessment is the most important for the nurse to monitor
- A. Skin to check for laceration and bruises
  - B. Swelling of the low limb
  - C. Pain score
  - D. Urine dipstick for presences of red blood cell
18. Which is the information the nurse is going to report to the doctor after assessing patient scheduled for knee surgery
- A. Knee pain at a level of 7 in scale of 0-10
  - B. Warm, red and swollen knee
  - C. Allergic to iodine
  - D. Previous surgery on the other knee
19. The following condition requires agent attention EXCEPT
- A. Acute Compartment Syndrome
  - B. Malunion
  - C. Hypovolemic shock
  - D. Fat embolism syndrome
20. The nurse is talking with a client who has just been diagnosed with Paget's disease. The nurse knows that this is a disorder that is due to
- A. Excess demonetarization
  - B. Excess osteoclastic
  - C. Reduced bone remodeling
  - D. Osteitis Deformans

**SECTION II SHORT ANSWER QUESTIONS**

**(30 MARKS)**

1. State six risk factors for osteoporosis (6 marks)
2. Describe the pathophysiology of COMPARTMENT SYNDROME (6 marks)
3. State 6 factors the hinders bone healing 6 marks
4. State five nursing intervention for patient with traction (5 marks)
5. Explain stages of bone healing process (7 marks)

**SECTION II SHORT ANSWER QUESTIONS**

**(30 MARKS)**

1. Mr. x as been diagnosed with Rheumatoid arthritis
  - a. Describe the pathophysiology of rheumatoid arthritis (5 marks)
  - b. Formulate four specific nursing diagnosis for Mr. x (4 marks)
  - c. Outline four no pharmacotherapy for Mr. x (4 marks)
  - d. Outline four main classifications of medication that Mr. x is likely to be given. Give one example of each class (7 marks)