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UNIVERSITY EXAMINATIONS 2024/2025

THIRD YEAR FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE IN NURSING

NND 3323 – ORTHOPEDIC AND DENTAL NURSING

DATE: JANUARY 2025

TIME: 3 HOURS

INSTRUCTIONS: *All questions are compulsory*

Ensure that all your answers are properly numbered

Part 1 Multiple Choice Questions (MCQs): Write the correct answer on the space provided in the answer booklet. Each MCQ is one mark.

Part 11: Short Answer Questions-Answer questions following each other on the answer booklet

Part 111: Long Answer Questions-Answer

SECTION A: MCQ (20 MARKS)

- Which of these articulations is not a true diarthrodial joint?
 - Sternoclavicular
 - Acromioclavicular
 - Scapulothoracic
 - Glenohumeral
 - The rotator cuff includes all the following muscles EXCEPT:
 - Supraspinatus
 - Teres minor
 - Deltoid
 - Subscapularis
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3. The occupational health nurse is planning health promotion activities for a group of factory workers. Which activity would be an example of primary prevention for patients at risk for low back pain?
- A. Teach back exercises to workers after returning from an injury.
 - B. Place signs in the work area about how to perform first aid.
 - C. Start a weight-reduction group that would meet at lunchtime,
 - D. Administer a nonnarcotic analgesic to a client complaining of back pain.
4. A patient with cervical neck injury due to motor vehicle accident is complaining of unrelieved pain after administration of a narcotic analgesic. Which alternative method of pain control would be an independent nursing action?
- A. Medicate the client with a muscle relaxant.
 - B. Heat alternating with ice applied by a physical therapist.
 - C. Watch television or listen to music.
 - D. Discuss surgical options with the health-care provider,
5. A nurse working on a medical-surgical floor feels a pulling in the back when lifting a client up in the bed. Which should be the first action taken by the nurse?
- A. Continue working until the shift is over and then try to sleep on a heating pad.
 - B. Go immediately to the emergency department for treatment and muscle relaxants.
 - C. Inform the charge nurse and nurse manager on duty and document the occurrence.
 - D. See a private health-care provider on the nurse's off time but charge the hospital.
6. An occupational health nurse is teaching a class on the risk factors for developing osteoarthritis (OA). Which is a modifiable risk factor for developing OA?
- A. Being overweight.
 - B. Increasing age.
 - C. Previous joint damage.
 - D. Genetic susceptibility.
7. A patient is being evaluated for osteoporosis. Which diagnostic test is the most accurate—when diagnosing osteoporosis?
- A. X-ray of the femur.
 - B. Serum alkaline phosphatase.



- C. Dual-energy x-ray absorptiometry (DEXA).
D. Serum bone Gla-protein test.
8. Which foods should the nurse recommend to a patient when discussing sources of dietary calcium?
- A. Yogurt and dark-green, leafy vegetables.
 - B. Oranges and citrus fruits.
 - C. Bananas and dried apricots.
 - D. Wheat bread and bran.
9. A nurse is caring for a patient who has just had a Left Below Knee Amputation (BIO). Which intervention should the nurse implement?
- A. Assess the patient's surgical dressing every two (2) hours.
 - B. Do not allow the patient to see the residual limb.
 - C. Keep a large tourniquet at the patient's bedside.
 - D. Perform passive range-of-motion exercises to the right leg.
10. What is the most important step to prevent cross-contamination in a dental setting?
- A. Wearing gloves
 - B. Using disposable instruments
 - C. Hand hygiene
 - D. Cleaning surfaces with disinfectant
11. Hypodontia refers to:
- A. Six or more congenitally missing teeth
 - B. A complete absence of teeth
 - C. Any number of missing teeth
 - D. Absence of supernumerary teeth
12. The most common cause of dental trauma in preschool children is related to:
- A. Falling
 - B. Cycling
 - C. Road traffic accident
 - D. Assault
13. A 30-year-old patient has had her lower left third molar extracted and has been given the necessary post-operative advice. Which of the following analgesics is the patient advised to avoid after the procedure?

- A. Asprin
 - B. Ibuprofen
 - C. Codeine
 - D. Paracetamol
14. The nurse is discussing osteoporosis with a group of women. Which factor will the nurse identify as a nonmodifiable risk factor?
- A. Calcium deficiency.
 - B. Tobacco use.
 - C. Female gender.
 - D. High alcohol intake.
15. The client with rheumatoid arthritis is prescribed prednisone 2.5 mg P.O. before meals and at bedtime, What is the primary expected action of this drug?
- A. Maintenance of sodium and potassium balance
 - B. Improvement of carbohydrate metabolism
 - C. Production of androgen-like effects
 - D. Interferes with inflammatory reactions
16. The nurse is caring for a client with a newly applied plaster cast. How should the nurse touch and move the wet cast?
- A. Use the palms of the hands
 - B. Use the fingertips only
 - C. Use a towel sling
 - D. Touch the cast only on the petals at the edges
17. Various materials are used by the dental team during an oral health assessment, which one of the following materials is used to take impressions for study models?
- A. Calcium and alginate salts with water
 - B. Calcium sulphate with water
 - C. Hardened calcium sulphate and water
 - D. Ethyl Chloride
18. Which one of the following cannot be diagnosed by the use of dental radiographs?
- A. Congenital tooth abscess
 - B. Dental abscess
 - C. Jaw fracture

D. Tooth vitality

19. Which one of the following is NOT a purpose of dentistry?

- A. Improve a patient's ability to eat
- B. Improve a patient's ability to talk
- C. Improve the appearance of their face
- D. Straighten a patient's teeth

20. Which one of the following is NOT a patient factor that guides oral hygiene advice?

- A. Age of subject
- B. Susceptibility of subject to gingivitis and periodontitis
- C. Social class
- D. Past periodontal disease experience

SECTION B: SHORT ANSWER QUESTIONS (30 MARKS)

- 1. State six (6) roles of a dental nurse. (6marks)
- 2. State four causes of hypermobility of temporomandibular joint (4marks)
- 3. State five (5) factors that inhibit fracture healing. (5marks)
- 4. State six (6) key indicators of good oral health. (6marks)
- 5. State six (6) reasons for dental loss. (6marks)
- 6. State three (3) principles of fracture management. (3marks)

SECTION C: LONG ANSWER QUESTION (20 MARKS)

Mr. Z has been admitted in the hospital with a diagnosis of osteomyelitis. Formulate a care plan for Mr. Z. Include two (2) actual nursing diagnosis and two (2) nursing interventions for each nursing diagnosis and a rationale for each intervention. (20marks)

