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University Examinations 2020/2021

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

NND 3323: ORTHOPAEDIC AND DENTAL NURSING

DATE: OCTOBER 2021

TIME: 2 HOURS

INSTRUCTIONS:

Answer All questions

Ensure that all your answers are properly numbered

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

Part II: Short Answer Questions – Answer questions following each other on the answer booklet

Part III: Long Answer Questions – Answer each question on the answer booklet.

PART I: Multiple Choice Question (20 Marks)

1. Buck's extension traction is:
 - a. Skin traction to the lower leg
 - b. Applied as cervical head halter
 - c. Traction is applied directly to the bone
 - d. Tongs applied to head
2. Most common pathogenic organism found in osteomyelitis?
 - a. Escherichia coli
 - b. Proteus
 - c. Pseudomonas species
 - d. Staphylococcus aureus
3. Which of the following is true about *osteoclasts*:
 - a. Involved in bone formation by secreting bone matrix
 - b. Mature bone cells involved in bone-maintenance functions
 - c. Multinuclear cells involved in destroying, resorbing, and remodeling bone

- d. Membrane in joint that secretes lubricating fluid
- 4. A surgical procedure done to relieve pressure in compartment syndrome:
 - a. Open reduction with internal fixation (ORIF)
 - b. Meniscectomy
 - c. Fasciotomy
 - d. Arthroplasty
- 5. A sequestrum is
 - a. A piece of soft dead tissue
 - b. A piece of dead skin
 - c. A piece of dead bone
 - d. Retained swab
- 6. Malunion of a fracture is
 - a. A fracture which unites in a position of deformity;
 - b. Delayed union of a fracture
 - c. Non-union of a fracture
 - d. Followed by pseudoarthrosis
- 7. Fractured bone has the greatest capacity to remodel in a;
 - a. 6-year-old male Little League player
 - b. 20-year-old female gymnast
 - c. 35-year-old male athlete
 - d. 55-year-old postmenopausal woman
- 8. Acute osteomyelitis usually begins at:
 - a. Epiphysis
 - b. Diaphysis
 - c. Metaphysics
 - d. Any of the above
- 9. Osteomalacia predominantly affects;
 - a. Spine
 - b. Pelvis
 - c. Skull bones
 - d. Metatarsals
- 10. Spiral fracture is due to;
 - a. Blunt trauma
 - b. Axial compression
 - c. Twist
 - d. Direct impact
- 11. For a client on traction who has skeletal pins, a nurse should:
 - a. Use povidone-iodine to cleanse the pin site
 - b. Apply antiseptic ointment and cover with a split dressing
 - c. Use hydrogen peroxide as a rinse before a dressing is applied
 - d. Do both pin sites at the same time, with the same swab and solution
- 12. Halitosis is a medical term for?
 - a. Black hairy tongue

- b. Bad breath
 - c. Plaque build up
 - d. All of the above
13. The best way to prevent gum (periodontal disease) is:
- a. Remove plaque
 - b. Use fluoride toothpaste
 - c. Root canal
 - d. Teeth whitening
14. Poor dental disease is linked to many serious disease and conditions:
- a. True
 - b. False
15. Which of the following usually precedes gum disease (periodontal disease)?
- a. Dentures
 - b. Pyorrhea
 - c. Gingivitis
 - d. Loose teeth
16. What nerve supplies to intrinsic muscles of the tongue?
- a. Trochlear
 - b. Trigeminal
 - c. Glossopharyngeal
 - d. Hypoglossal
17. A dental carie is another name for:
- a. Dental instrument
 - b. Gingivitis
 - c. Cavity
 - d. Plaque build up
18. Which of the following is the main reasons for a root canal?
- a. A tooth is cracked
 - b. The pulp can't be fixed
 - c. Gums are bleeding
 - d. A cavity is present
19. Patients should give informed consent to all dental procedures. Which of the following is not a part of informed consent?
- a. Informing patients of the risks of treatment
 - b. Patients agreement to care
 - c. Obtaining a dental history of the patient
 - d. Having a discussion of the treatment options with the patient
20. When a periapical abscess forms, it indicates?
- a. The gums are infected
 - b. Tooth enamel is worn thin
 - c. A cavity
 - d. A dead or dying tooth root

PART II: Short Answer Questions (30 Marks)

1. Define the following terms: (5 Marks)
 - a. Orthopedics
 - b. Buck's traction
 - c. Osteoporosis
 - d. Osteomyelitis
 - e. Gingivitis
2. State the four types of bones giving an example for each class. (4 Marks)
3. State five functions of the orthopedic system (5 Marks)
4. Describe the immediate assessment and management you will give to a trauma patient. (6 Marks)
5. Describe the etiology and progression of periodontal disease. (5 Marks)
6. Define malocclusion and briefly explain the classifications of malocclusion. (4 Marks)
7. State five nursing care interventions for a patient undergoing a magnetic resonance imaging. (MRI) (5 Marks)

PART III: Long Answer Questions (20 Marks)

1. Mrs. X 32 weeks gestation, is involved in a road traffic accident (RTA) and brought into the emergency department with complaints of chest pain, abnormal pains, and a broken bone and bleeding at the thigh. Her vital signs are:BP 90/55 mmHG, p-60bpm, T-37 and RR-24bpm.
 - a. State three assumptions of what could be wrong with Mrs. X (3 Marks)
 - b. State five diagnostic procedures that needs to be done to Mrs. X (5 Marks)
 - c. Describe both the medical and nursing management of Mrs. X (12 Marks)