

Master Degree

All questions are to be answered, 15marks for each question

1. Enumerate:

- a. Complications of supracondylar humeral fracture .
- b. Causes of shoulder pain

2. Give an account on ulnar nerve lesions at wrist

3. Discuss osteochondritis dissecans.

Best wishes.



Q1) Case study: (10 marks)

A 68 year-old woman who underwent total **hip replacement** 6 weeks ago has been admitted via the orthopedic clinic because of **discomfort around the prosthesis**. On examination, she is afebrile and in generally good physical condition for her age, apart from the right hip. There is mild tenderness over the hip but no redness or swelling . Radiographs show only the reactive changes expected after elective surgery. The peripheral leucocyte count is within normal limits and the C-reactive protein is 25 (normal range 1-10)

- a) Can these features be explained by an infection of the prosthesis?
- b) If so, what would be the most likely bacterial cause?
- c) What are the laboratory investigations to confirm your diagnosis and to treat this case?

Q2) Write short notes on the following: (5 marks each)

- a) The microbiological investigations you would use in the management of **Pott's disease**.
- b) **Graft Rejection**

Q3) MCQs: (10 marks)

1. Each of the following statements concerning bacterial spores is correct EXCEPT:

- a) Their survival ability is based on their enhanced metabolic activity.
- b) They are formed by gram positive rods.
- c) They can be killed by heating at 121°C for 30 minutes.
- d) They contain much less water than bacterial cells

2. Each of the following describes the hot air oven EXCEPT:

- a) It is the main method of dry heat sterilization.
- b) Used for surgical dressing.
- c) It is heated by electricity.
- d) Its temperature is 160-170.



3. Which one of the following BEST describes disinfection?

- a) Destruction of all forms of all micro-organisms by physical or chemical means.
- b) Destruction of all bacteria by physical or chemical means.
- c) Destruction of all pathogenic bacteria by physical or chemical means.
- d) Destruction of all non-pathogenic bacteria by physical or chemical means.

4. For preparation of skin before surgery, we use:

- a) Glutaraldehyde (cidex)
- b) Chlorine
- c) Hydrogen peroxide
- d) Povidone – iodine (betadine)

5. What may result following acute follicular tonsillitis caused by *Streptococcus pyogenes*?

- a) Acute epiglottitis.
- b) Impetigo.
- c) Rheumatic fever.
- d) Scarlet fever.

GOOD LUCK

Oral exam will be held at 5/4/2021 at 10 a.m.

Master degree examination in : Orthopedics
Code No., : Ortho 8003
Date: 23/3/2021
Term: February 2021
Time allowed: ** hour
Total assessment marks: 60 marks



Tanta University
Faculty of Medicine
Pathology Department

Give short note about:

(10 marks each)

- 1- Types of gangrene
- 2- Ewing's sarcoma
- 3- Osteomyelitis
- 4- Pathological calcification
- 5- Multiple myeloma
- 6- Healing of bone fracture

**N.B. Practical and oral exam will be held on Tuesday
23\3\2021 in pathology department (1 pm) following
written exam.**

Good Luck!

**Head of Pathology Department
Prof. Maha Shamloula**