

21 / 08 / 2025

Final Musculoskeletal Essay and MCQ Resit Exam

Time Allowed: 1.5 h

Answer the following questions

Pathology

1. Enumerate TWO systemic effects of Rheumatoid arthritis. (2 mark)
2. List TWO Complications of Paget's disease of the bone. (2 mark)

Anatomy

3. List TWO contents of femoral triangle (2 mark) *Femoral Artery
Femoral vein*
4. Mention the results of Fracture neck humerus (2 mark)
5. Mention the beginning of the Femoral artery (2 mark)
6. Enumerate TWO muscular branches of femoral nerve (2 mark)
7. Mention the nerve supply of Pectineus (2 mark)
8. Mention roots value of the Sciatic nerve (2 mark)
9. Mention TWO contents of popliteal fossa (2 mark)

Parasitology

10. Mention the typical symptoms of the GIT phase (first week) of trichinellosis. (2 mark)

Histology

11. Describe the histological structure of the white fibrocartilage. (2 mark)
12. Describe the arrangement of bone matrix lamellae of compact bone. (2 mark)

Physiology

13. Enumerate the changes in the sarcomere due to muscle contraction. (2 mark)
14. Explain the mechanism of excitation-contraction coupling in smooth muscles. (2 marks)

Pharmacology

15. Mention ONE common adverse effects of hydroxychloroquine (1 mark)

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Semester 2, Midterm MSS/Resit/Exam

15. Which of the following is the antibiotic of choice for anaerobic infections?

- A. Penicillin
- B. Metronidazole ✓
- C. Amoxicillin
- D. Ciprofloxacin
- E. Erythromycin

16. Which of the following is true about joints affected in Osteoarthritis?

- A. Hip joint in female.
- B. Elbow joint in female. ✓
- C. Hip joint in males.
- D. Knee joint in males.
- E. Hands in male.

17. Which of the following is considered as acquired osteodystrophy?

- A. Osteogenesis Imperfecta.
- B. Osteopetrosis.
- C. Fibrous dysplasia.
- D. Achondroplasia.
- E. Rheumatoid arthritis.

18. 7-year-old girl is diagnosed with chickenpox. Two days later, she is taken to the emergency room due to persistent vomiting and mental status changes. Her blood work reveals elevated liver enzymes. Which of the following medications, when given at an appropriate dose, may cause this patient presentation?

- A. Acetaminophen
- B. Aspirin
- C. Celecoxib
- D. Ibuprofen ✓
- E. Naproxen

19. Which of the following NSAID is used to treat patent ductus arteriosus in neonates?

- A. Ketoprofen
- B. Mefenamic acid
- C. Celecoxib ✓
- D. Phenybutazone
- E. Indomethacin

20. A 45-year-old surgeon has developed symmetric early morning stiffness in her hands. She wishes to take an NSAID to relieve these symptoms and wants to avoid gastrointestinal side effects. Which one of the following drugs is most appropriate?

- A. Aspirin
- B. Celecoxib ✓
- C. Ibuprofen
- D. Indomethacin
- E. Piroxicam

END OF THE EXAM Best Wishes

8. Lateral two-thirds of the dorsum of the hand and the lateral three and half fingers as far as middle phalanx are supplied by which of the following nerves?
- A. Ulnar
 - B. Median
 - C. Radial
 - D. Anterior interosseus
 - E. posterior interosseus
9. Damage to the upper trunk of the brachial plexus leads to which condition?
- A. Klumpke's palsy
 - B. Erb's palsy
 - C. Ape hand
 - D. Pointing finger ✓
 - E. Winging of scapula
10. Where is hyaline cartilage located?
- A. Trachea.
 - B. Epiglottis.
 - C. Symphysis pubis.
 - D. Semilunar cartilage of knee.
 - E. External auditory meatus.
11. Which of the following is the origin of osteoblast?
- A. Osteoclast
 - B. Monocytes
 - C. Activated osteogenic cells
 - D. Osteocytes ✓
 - E. Chondrocytes
12. What is the hallmark clinical features of the trichinosis phase (2nd-3rd week)?
- A. Rash, diarrhea, cough, headache
 - B. Facial edema, eosinophilia, fever
 - C. Chest pain, cyanosis, hematuria, insomnia
 - D. Jaundice, rash, photophobia, dizziness
 - E. Itching, swelling, blurred vision, joint pain
13. Synaptic vesicles which help neuromuscular transmission have which of the following?
- A. Noradrenaline.
 - B. Dopamine.
 - C. Acetylcholine.
 - D. Adrenaline ✓
 - E. Muscarine.
14. In myasthenia gravis, there is production of auto-antibodies against which of the following?
- A. T-tubules.
 - B. Sarcoplasmic reticulum.
 - C. Acetyl choline vesicles.
 - D. Acetyl choline receptors.
 - E. Voltage gated Ca^{++} channels of axons.

Select ONE Best Answer. Fill the Circle in the Answer S

1. **Carpal tunnel syndrome is caused by compression of which nerve?**
 - A. Median ✓
 - B. Radial
 - C. Ulnar
 - D. Posterior interosseous nerve
 - E. Axillary nerve

2. **Which nerve primarily innervates the biceps brachii muscle?**
 - A. Median nerve
 - B. Ulnar nerve
 - C. Radial nerve ✓
 - D. Musculocutaneous nerve
 - E. Axillary nerve

3. **Which rotator cuff muscle is primarily responsible for medial rotation of the humerus?**
 - A. Supraspinatus
 - B. Infraspinatus
 - C. Teres minor
 - D. Subscapularis
 - E. Pectoralis major

4. **Which muscle forms the medial wall of the axilla?**
 - A. Pectoralis major
 - B. Latissimus dorsi ✓
 - C. Serratus anterior
 - D. Teres major
 - E. Coracobrachialis

5. **Which of the following muscles is supplied by median nerve?**
 - A. Brachialis
 - B. Brachioradialis
 - C. Opponens Digiti Minimi
 - D. Flexor digitorum superficialis
 - E. Triceps

6. **Which structure forms the content of the cubital fossa?**
 - A. Pronator teres
 - B. Brachioradialis
 - C. Biceps brachii
 - D. Flexor carpi ulnaris
 - E. Supinator

7. **Which vein originates at the anatomical snuffbox?**
 - A. Median cubital vein
 - B. Cephalic vein
 - C. Ulnar vein
 - D. Axillary vein
 - E. Basilic vein