



Final exam - Musculoskeletal system

Sem 2 - 2024/2025 – 3/6/2025 – 2 hours duration

Section 1: Short Essay Questions

1. Uses and mechanism of botulinum toxin

2. Movements of the ankle joint

3. Action of flexor carpi radialis

4. Nerve supply of the anterior compartment of the arm

5. Branches of musculocutaneous nerve

6. How to unlock the knee joint and what muscle does that

7. Summarize 2 anomalies of the vertebral column

8. Structures under flexor retinaculum of Lower limb

9. Mechanism of smooth muscle contraction

10. Table

Smooth muscle	Skeletal muscle
Regulatory protein	Regulatory protein
Speed of contraction	Speed of contraction

11. Treatment Protocol of cysticercosis

12. Symptoms of the GIT stage of *Trichinella spiralis*

13. Arrangement of bone lamellae of compact bone

14. 2 structures of femoral triangle

15. Mention age and site of deep fibromatosis

16. Describe microscopic examination of osteosarcoma

17. Complications of Paget's disease

18. Mention 2 systemic effects of R.A

19. Origin, name, and cutaneous branches of femoral nerve

20. Two indicators of glucocorticosteroids

21. Mechanism of excitation-contraction coupling in smooth muscles

22. Components of carpal tunnel

23. Two components of flexor retinaculum (lower limb)

24. Sarcomere description after contraction

25. Two branches of brachial artery

26. Two types of connective tissue components of skeletal muscle

27. Histology of white fibrous cartilage

28. Two rotator cuff muscles

29. Mention 2 ligaments outside the capsule of the knee joint

Section 2: Multiple choice Questions

30. The commonest sarcoma in children is

A) Rhabdomyosarcoma

31. Which nerve supplies lateral 2/3 of the palm and 2/3 reaches to the nail bed?

A) Median nerve

32. Deformity caused by medial epicondyle fracture?

A) Partial claw hand

33. Deepest structure of Popliteal fossa

A) Popliteal Artery

34. Reason for Nagler's reaction?

A) Alpha toxin

35. Termination of tibial nerve

A) Distal border of popliteal fossa

36. Cartilage matrix characteristic

A) Non Vascular

37. Mechanical efficiency of isometric contraction

A) Zero

38. Supinator of the forearm

A) Brachioradialis

39. Nerve to sartorius

A) Femoral nerve

40. Cephalic vein drains to

A) Axillary vein

41. Fibular (peroneal) artery branches from

A) Posterior tibial artery

42. Injury to superior gluteal nerve leads to loss of

A) Adduction (Gluteus minimus and medius)

43. Which of the following is a synovial hinge joint

A) Ankle joint

44. Child 12 years old child got injured while playing. There's inflammation left thigh metaphysis of femur. What's the microscopic findings?

A) Sequestrum and involucrum

45. Fast (pale) fibers

A) Absent of myoglobin

46. A man come to emergency with toxicity when examination liver enzymes is elevated (alanine aminotransferase + aspartate aminotransferase)

A) Acetaminophen

47. A patient was complaining of symptoms of myasthenia gravis and was taking neostigmine, prednisone, and azathioprine. Upon re-evaluation, he was found to have symptoms of glaucoma. Which medication should be discontinued immediately?

A) Prednisone

48. A man presented complaining of abdominal pain. It was revealed that he had consumed pork three days prior. Microscopic examination of a muscle biopsy sample showed cysts, and a stool examination revealed a segment of an adult worm what's is the segment

A) Taenia gravid segment

49. patient complain from peptic ulcer which Analgesic of the following is suitable

A) Celecoxib

50. A patient have R.A strats to take methotrexate which of the following antagonist of its side effect

A) Leucovorin

51. Specific antagonist to non depolarizing blockers by chelating them in the core and reducing their plasma concentration

A) Sugammadex

52. Calcium binds to

A) Troponin

53. A microorganism was cultured in an egg yolk medium. What is the first expected action to be performed from this culture?

A) Producing of Alpha toxin

54. 54. a patient with osteoporosis , wasting muscles , easy bruse of skin and hypertension , taking azathioprine and dexamethasone , which of the following is the main cause:

A) Dexamethason

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