



UNIVERSITY OF NAIROBI
DEPARTMENT OF HUMAN ANATOMY
PROGRESS ASSESSMENT 3 FOR MBChB AND BDS
AUTOMATED SLIDE SHOW

DATE: 20TH NOVEMBER, 2015

TIME: 2:30PM – 5:00PM

INSTRUCTIONS:

1. This paper consists of 40 questions in a slide show format
2. Each question lasts 1 minute and 30 seconds then changes automatically
3. Answer all questions within the spaces provided after each question

1. (a) State the insertion of muscle A (2 marks)

(b) Give the root value and distribution of nerve B (2 marks)
2. (a) State two actions of muscle Y (2 marks)

(b) State the cutaneous innervation of the medial thigh (2 marks)
3. (a) Name two structures that attach at region X of this bone (2 marks)

(b) State two modifications of the fascia lata (2 marks)
4. (a) State two stability factors of bone A (2 marks)

(b) Name two structures that attach on area X of bone B (2 marks)
5. Name two structures that attach on regions Y and Z:
 - a. Structures attached to region Y (2 marks)
 - b. Structures attached to region Z (2 marks)

6. (a) Name the parts labeled A – C (3 marks)
- (b) State the main stability factor of the hip joint (1 mark)
7. (a) State two actions of the muscle displayed (2 marks)
- (b) State the source of blood supply to the sciatic nerve (2 marks)
8. Name the structures deep to structures A and B
- a. Structure deep to A (1 mark)
- b. Structures deep to B (3 marks)
9. (a) Name the nerves that supply regions labelled A and B (2 marks)
- (b) Name two structures behind the lateral malleolus (2 marks)
10. (a) Name two arteries that form X (2 marks)
- (b) State the attachments of Y (2 marks)
11. (a) Name the curvatures labeled A and B (2 marks)
- (b) State the embryonic origin of X and Y (2 marks)
12. (a) Name the parts labeled X and Y of the vertebra displayed (2 marks)
- (b) Name two ligaments that attach to Z (2 marks)
13. Outline four actions of A (4 marks)

14. (a) State the nerve supply to the muscles labelled A and B (2 marks)

A

B

(b) Name two sites of injury to the radial nerve in the arm (2 marks)

15. (a) Identify structures A and B (2 marks)

(b) Name two main lymph node groups that drain the breast (2 marks)

16. (a) State the root value of the nerve in A and B (2 marks)

A

B

(b) State the motor distribution of nerve in C in the forearm (2 marks)

17. (a) Identify the structures labeled A and B in the radiograph displayed (2 marks)

A

B

(b) State two actions of hand lumbricals (2 marks)

18. (a) Name the structures labelled A and B in the arm specimen displayed (2 marks)

A

B

(b) Name two branches of the lateral cord of the brachial plexus (2 marks)

19. (a) State the nerve supply to muscle A (2 marks)

(b) Identify structures labelled B and C (2 marks)

B

C

20. (a) Identify muscle X and nerve Y (2 marks)

(b) State two causes of claw hand (2 marks)

21. State two functions of the organelles labelled A and B
Organelle A (2 marks)

Organelle B (2 marks)

22. (a) Identify the type of chromatin labelled A and B (2 marks)

(b) State two features of a cell actively synthesizing and proteins (2 marks)

23. (a) Name two regions where the epithelium type displayed is found (2 marks)

(b) Name two lateral epithelial adaptations (2 marks)

24. State two sites where the epithelial specializations displayed are found

Specialization A (2 marks)

Specialization B (2 marks)

25. (a) Identify with a reason the connective tissue fibers displayed (2 marks)

(b) State two functions of adipose tissue (2 marks)

26. (a) State the distribution of connective tissue type displayed (2 marks)

(b) Name two classes of cells in this connective tissue (2 marks)

27. (a) State two unique features of the cartilage type displayed (2 marks)

(b) State two cartilage types that lack a perichondrium (2 marks)

28. Name four cell types in the tissue displayed and state the function of each (4 marks)

29. Outline four features displayed in this tissue (4 marks)

30. (a) Identify the epithelial type displayed and state one site where it's found (2 marks)
 Type
 Distribution
- (b) Name the phase of the cell cycle where the following occurs: (2 marks)
 Preparation for DNA replication
 Cell division
31. (a) State the hormonal basis of events A and B (2 marks)
 Event A
 Event B
- (b) State two phases of spermatogenesis (2 marks)
32. (a) State one derivative and one anomaly of B (2 marks)
 Derivative
 Anomaly
- (b) State one function and one anomaly associated with D (2 marks)
 Function
 Anomaly
33. (a) State the syndromes depicted by the karyotypes displayed (2 marks)
 A
 B
- (b) State the most vulnerable period for occurrence of congenital anomaly give one reason (2 marks)
34. (a) Name the parts of the ectoderm labelled A and B (2 marks)
- (b) State two derivatives of the sclerotome (2 marks)
35. (a) Identify the types of conjoined twins displayed (2 marks)
 A B
- (b) State two meiotic arrests during oogenesis (2 marks)

36. (a) Name the foetal membrane associated with these malformations (2 marks)

A

B

(b) State two causes of polyhydramnios (2 marks)

37. (a) Identify the placental anomalies displayed (2 marks)

A

B

(b) Name two hormones secreted by the placenta (2 marks)

38. (a) Identify the methods labelled A and B (2 marks)

A

B

(b) State the embryonic origin of the following cells:

Oligodendrocytes

Schwann cells

39. (a) Identify the parts labeled A and B (2 marks)

A

B

(b) State two functions of the follicular cells (2 marks)

40. (a) Identify the parts labeled A and B (2 marks)

A

B

(b) State the embryological basis of the following limb anomalies: (2 marks)

Syndactyly

Amelia

***** THE END *****