

Practice Questions – Osseous Tissue, Bone, and the Skeleton

Note: choices may be used more than once or not at all.

1-5. Matching

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|-----------------------------|---|-----------------|
| A) Spongy (cancellous) bone | bone that is relatively solid | 1) <u> B </u> |
| B) Compact (dense) bone | layer that lines the marrow cavities | 2) <u> D </u> |
| C) Periosteum | composed of fibrous connective tissue | 3) <u> C </u> |
| D) Endosteum | bone that is a network with many spaces | 4) <u> A </u> |
| E) None of the above | major component of the epiphyses of bones | 5) <u> A </u> |

6-10. Matching

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|----------------------|--|------------------|
| A) Osteocytes | these cells are found throughout compact and spongy bone | 6) <u> A </u> |
| B) Osteoclasts | are the cells responsible for producing new bone | 7) <u> C </u> |
| C) Osteoblasts | are the cells found in fibrous connective tissue | 8) <u> E </u> |
| D) Chondrocytes | are the cells responsible for destroying bone | 9) <u> B </u> |
| E) none of the above | are the cells found in cartilage | 10) <u> D </u> |

11-15. Matching

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|----------------------|---|------------------|
| A) Diaphysis | composed of adipose tissue and blood tissue | 11) <u> C </u> |
| B) Epiphysis | found in spaces of spongy bone | 12) <u> C </u> |
| C) Bone Marrow | found in the medullary cavity | 13) <u> C </u> |
| D) None of the above | often referred to as the shaft | 14) <u> A </u> |
| | the joint end of a long bone | 15) <u> B </u> |

16-20. Matching

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|----------------------|--------------------------------|------------------|
| A) Diaphysis | composed mainly of spongy bone | 16) <u> B </u> |
| B) Epiphysis | composed mainly of dense bone | 17) <u> A </u> |
| C) Bone Marrow | composed of hemopoietic tissue | 18) <u> C </u> |
| D) None of the above | means "from end to end" | 19) <u> A </u> |
| | means "around the end" | 20) <u> B </u> |

21-25. Matching

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|----------------------|---|------------------|
| A) Ligaments | composed of dense irregular fibrous connective tissue | 21) <u> C </u> |
| B) Endosteum | composed of dense regular fibrous connective tissue | 22) <u> A </u> |
| C) Periosteum | covering around the outside of a bone | 23) <u> C </u> |
| D) None of the above | contains osteoblasts and osteoclasts | 24) <u> B </u> |
| | connects bone to bone | 25) <u> A </u> |

26-30. Matching

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|----------------------|--------------------------------|------------------|
| A) Sagittal suture | connects parietal to sphenoid | 26) <u> E </u> |
| B) Coronal suture | connects parietal to temporal | 27) <u> C </u> |
| C) Squamous suture | connects parietal to occipital | 28) <u> D </u> |
| D) Lambdoidal suture | connects parietal to parietal | 29) <u> A </u> |
| E) None of the above | connects parietal to frontal | 30) <u> B </u> |

31-35. Matching

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|-------------------|---|--------------|
| A) Occipital bone | contains the optic foramen | 31) <u>C</u> |
| B) Temporal bones | contains the foramen magnum | 32) <u>A</u> |
| C) Sphenoid bone | contains the external auditory canal | 33) <u>B</u> |
| D) Ethmoid bone | forms a major part of the floor of the nose | 34) <u>E</u> |
| E) Maxilla | contains the Crista Galli and Perpendicular Plate | 35) <u>D</u> |

36-40. Matching

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|-------------------------------|-------------------------------------|--------------|
| A) Forms part of nasal septum | vomer bone | 36) <u>A</u> |
| B) Forms part of nasal cavity | frontal bone | 37) <u>D</u> |
| C) Contains sella turcica | sphenoid bone | 38) <u>E</u> |
| D) Forms part of orbit | conchae of Ethmoid bone | 39) <u>B</u> |
| E) C and D | perpendicular plate of Ethmoid bone | 40) <u>A</u> |

41-45. Matching

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|---|-------------------------------------|--------------|
| A) Forms posterior part of orbit (eye socket) | vomer bone | 41) <u>C</u> |
| B) Forms inferior part of orbit (eye socket) | sphenoid bone | 42) <u>E</u> |
| C) Forms part of nasal septum | maxillary bone | 43) <u>B</u> |
| D) Contains sella turcica | zygomatic bone | 44) <u>B</u> |
| E) A and D | perpendicular plate of Ethmoid bone | 45) <u>C</u> |

46-50. Matching

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|-----------------------------|-----------------------------|--------------|
| A) Foramen ovale | for nerves for eye movement | 46) <u>E</u> |
| B) Optic foramen | for trigeminal nerve | 47) <u>A</u> |
| C) Jugular foramen | for jugular veins | 48) <u>C</u> |
| D) Foramen magnum | for optic nerve | 49) <u>B</u> |
| E) Superior orbital fissure | for spinal cord | 50) <u>D</u> |

51-55. Matching

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|-----------------------------|-----------------------------|--------------|
| A) Carotid foramen | for nerves for eye movement | 51) <u>E</u> |
| B) Jugular foramen | for the carotid artery | 52) <u>A</u> |
| C) Foramen magnum | for auditory nerve | 53) <u>D</u> |
| D) Internal auditory canal | for jugular vein | 54) <u>B</u> |
| E) Superior orbital fissure | for spinal cord | 55) <u>C</u> |

56-60. Matching

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|--------------------------------------|----------------------------|--------------|
| A) 1 st cervical vertebra | connects to sacrum | 56) <u>B</u> |
| B) 5 th lumbar vertebra | connects to maxilla | 57) <u>D</u> |
| C) Ethmoid bone | connects to frontal bone | 58) <u>C</u> |
| D) Vomer bone | connects to occipital bone | 59) <u>A</u> |
| E) Mandible | connects to temporal bone | 60) <u>E</u> |

61-65. Matching

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|----------------------|--|--------------|
| A) Ribs 1-10 | connect to vertebrae at the bodies <u>and</u> transverse processes | 61) <u>A</u> |
| B) Ribs 11 and 12 | connect to the vertebrae only at the bodies | 62) <u>B</u> |
| C) None of the above | contain capitulum and <u>no</u> tubercle | 63) <u>B</u> |
| | contain capitulum <u>and</u> tubercle | 64) <u>A</u> |
| | are called the floating ribs | 65) <u>B</u> |

66-70. Matching

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|------------------------|--|------------------|
| A) Mandibular condyles | connect to talus bones | 66) <u> E </u> |
| B) Occipital condyles | connect to temporal bones | 67) <u> A </u> |
| C) Ribs 1 through 10 | connect to transverse processes | 68) <u> C </u> |
| D) Ribs 11 and 12 | connect to body of vertebrae only | 69) <u> D </u> |
| E) Lateral malleoli | are often referred to as 'floating ribs' | 70) <u> D </u> |

71-75. Matching

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|------------------------|---------------------------------------|------------------|
| A) Joint capsule | composed of fibrous connective tissue | 71) <u> A </u> |
| B) Articular cartilage | found at the joint ends of bone | 72) <u> B </u> |
| C) Synovial membrane | composed of hyaline cartilage | 73) <u> B </u> |
| D) None of the above | found around a joint | 74) <u> A </u> |
| | lines joint cavity | 75) <u> C </u> |

76-80. Matching

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|----------------------|--|------------------|
| A) Ulna | is located laterally in the standard anatomical position | 76) <u> B </u> |
| B) Radius | connects to the Scaphoid bone | 77) <u> B </u> |
| C) None of the above | connects to the Lunate bone | 78) <u> A </u> |
| | connects to the Capitulum | 79) <u> B </u> |
| | connects to the Trochlea | 80) <u> A </u> |

81-85. Matching

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|--------------------------|--------------------------|------------------|
| A) Connects to manubrium | Head of humerus | 81) <u> B </u> |
| B) Connects to scapula | Trochlea of humerus | 82) <u> D </u> |
| C) Connects to radius | Sternal end of clavicle | 83) <u> A </u> |
| D) Connects to ulna | Capitulum of humerus | 84) <u> C </u> |
| E) None of the above | Acromial end of clavicle | 85) <u> B </u> |

86-90. Matching

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|----------------------|--|------------------|
| A) Capitate | connects to the 1 st metacarpal | 86) <u> B </u> |
| B) Trapezium | connects to the 2 nd metacarpal | 87) <u> C </u> |
| C) Trapezoid | connects to the 3 rd metacarpal | 88) <u> A </u> |
| D) Triquetrum | connects to the 4 th metacarpal | 89) <u> E </u> |
| E) None of the above | connects to the 5 th metacarpal | 90) <u> E </u> |

91-95. Matching

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|----------------------|----------------------------|------------------|
| A) Lunate bone | connects to the triquetrum | 91) <u> A </u> |
| B) Scaphoid bone | connects to the trapezium | 92) <u> B </u> |
| C) A and B | connects to the capitate | 93) <u> C </u> |
| D) None of the above | connects to radius | 94) <u> B </u> |
| | connects to ulna | 95) <u> A </u> |

96-100. Matching

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|-----------------------|-------------------------------------|-------------------|
| A) Ilium of coxa | connects with the head of the femur | 96) <u> C </u> |
| B) Condyles of femur | connect with condyles of tibia | 97) <u> B </u> |
| C) Acetabulum of coxa | connects with head of fibula | 98) <u> D </u> |
| D) None of the above | connects with the sacrum | 99) <u> A </u> |
| | connect with patella | 100) <u> B </u> |

101-105. Matching

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|------------|---------------------------------|---------------|
| A) Ulna | contains the greater trochanter | 101) <u>C</u> |
| B) Tibia | contains the deltoid tuberosity | 102) <u>E</u> |
| C) Femur | contains the gluteal tuberosity | 103) <u>C</u> |
| D) Fibula | contains the linea aspera | 104) <u>C</u> |
| E) Humerus | contains the trochlea | 105) <u>E</u> |

106-110. Matching

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|--|--------------------------------------|---------------|
| A) Underside of lateral condyle of tibia | connects with lateral malleolus | 106) <u>C</u> |
| B) Metatarsals | connects with medial malleolus | 107) <u>C</u> |
| C) Talus bone | connects with the head of the fibula | 108) <u>A</u> |
| D) None of the above | connects with the calcaneus bone | 109) <u>C</u> |
| | connects with the navicular bone | 110) <u>C</u> |

111-115. Matching

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|---------------------------------------|--------------------------------------|---------------|
| A) Fibular articular surface of tibia | connects to <i>condyles</i> of tibia | 111) <u>C</u> |
| B) Lateral and medial malleoli | connects to talus bone | 112) <u>B</u> |
| C) Condyles of femur | connects to the calcaneus bone | 113) <u>E</u> |
| D) Acetabulum | connects to the head of the fibula | 114) <u>A</u> |
| E) Talus bone | connects to the head of the femur | 115) <u>D</u> |

116-120. Matching

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|--|--|---------------|
| A) Cuboid | connects to the 1 st metatarsal | 116) <u>B</u> |
| B) 1 st (<i>Medial</i>) Cuneiform | connects to the 2 nd metatarsal | 117) <u>C</u> |
| C) 2 nd (<i>Intermediate</i>) Cuneiform | connects to the 3 rd metatarsal | 118) <u>D</u> |
| D) 3 rd (<i>Lateral</i>) Cuneiform | connects to the 4 th metatarsal | 119) <u>A</u> |
| E) None of the above | connects to the 5 th metatarsal | 120) <u>A</u> |