BSC2093 C - Review Sheet for Quiz on Skeleton and Joints

1. List 4 functions performed by the skeletal system.

1. c.
2. d.

2. Tell the specific location of hematopoietic tissue in adult humans.

Describe its structure –

Give its function –

4. Name the 3 components that comprise the matrix of bone tissue.

1. b. c

5. Compare the 4 kinds of cells found in bone by completing the table below.

Name of cell Function of cell

a.

b.

c.

d.

6. Which kind of bone tissue is shown below? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Label the structures indicated on the picture.

7. Compare the **structure** of compact and spongy bone.

Within a long bone, in what part is compact bone located? (2 places) –

In what region of the bone do we find spongy bone?

8. Parathyroid hormone is produced by the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ gland in response to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ levels of calcium in the blood. The hormone specifically acts on this kind of bone cell (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_), causing it to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ calcium from bone tissue in the skeleton.

9. Define each of the following term –

a. epiphysis-

b. diaphysis –

c. periosteum -

d. sesamoid bones-

e. intramembranous ossification-

f. appositional growth –

10. Answer the following questions about fontanels.

a. what is a fontanel?

b. what kind of tissue makes up a fontanel?

c. where are fontanels located?

d. what is the “function” of a fontanel?

e. what happens to fontanels as a person ages?

11. Describe the cause of each of the following skeletal disorders –

a. kyphosis-

b. scoliosis –

c. lordosis –

12. Name the 4 zones of an Epiphyseal Plate and describe the composition of each zone.

Zone 1 =

Zone 2 =

Zone 3 =

Zone 4 =

13. What is the function of the nasal sinuses?

Name the 4 bones that contain a nasal sinus.

14. Be able to describe the changes that take place (the 4 steps) in the repair of a bone fracture.

15. Be able to name the 4 curves of the adult skeleton and tell which are primary versus secondary. Also know which vertebral curves are concave and which are convex.

16. Name the 3 common abnormalities of the vertebral column and be able to describe the affect each has on which specific part of the vertebral column is affected in each case,

17. Complete the following table

Type of Joint Structural type Functional type Movement allowed

Syndesmosis

Ball and socket

Suture

Gomphosis

Hinge

Symphysis

18. Describe the following structures and tell their function.

Burse –

Articular cartilage

Synovial membrane

Capsular ligaments

Meniscus

Synovial fluid

19. Tell the difference between the following angular movements –

Pronation and supination –

Abdunction and adduction -

Flexion , Extension and hyperextension –

Circumduction –

Dorsoflexion –

20. What is demineralization and tell how it is related to osteoporosis.

Explain why women suffer more from osteoporosis than men. Give 2 Different reasons!!

21. Tell the difference between Osteoarthritis and Rheumatoid Arthritis.