

King Saud University
College of Science
Department of Biochemistry
BSC 376
Final Exam

Name: _____

Date: 1430/1431

Instruction: Choose the **RIGHT** answer.

1. Human breast milk is composed of the following nutrient.

- a. Ammonia
- b. Surfactant
- c. Fat**
- d. Thromboxane A₂

2. The Aqueous Humor is secreted by?

- a. Ciliary process**
- b. Choroid process
- c. Retina
- d. Sclera

3. Hyaluronic acid is found in?

- a. Suspensory ligaments
- b. Joints**
- c. Sclera
- d. Canal of Schlemm

4. The three mechanisms for the formation of aqueous humor is the following **EXCEPT**.

- a. Diffusion
- b. Ultrafiltration
- c. Passive transport**
- d. Active Transport

5. The function of aqueous humor is?

- a. Remove metabolic products**
- b. Anatomical development
- c. Prevention of Brain ischemia
- d. None of the above

6. A disease of the optic nerve leading to blindness?

- a. Cataract
- b. Retinopathy
- c. Retinitis
- d. Glaucoma**

7. Milk Synthesis occurs in the following structures **EXCEPT**.

- a. Cytoplasm
- b. Golgi apparatus
- c. Occurs in the polar alveolar cells
- d. Capillary epithelial cells**

8. Human milk synthesis is influenced by this hormone.

- a. Follicle stimulating Hormone
- b. Leutinizing Hormone
- c. Prolactin**
- d. Thyroid Stimulating Hormone

9. Human milk ejection or milk "letdown" is influenced by this hormone.

- a. Prolactin
- b. Oxytocin**
- c. Leutinizing Hormone
- d. Ejection Hormone

10. The production of semen is called?

- a. Spermatogenesis**
- b. Spermatozoon
- c. Aspermia
- d. None of the above

11. The normal ejaculate of semen.

- a. Oligozoospermia
- b. Normozoospermia**
- c. Azoospermia
- d. None of the above

12. Semen is composed of the following EXCEPT.

- a. Anticoagulant
- b. Phospholipids
- c. *White Blood Cells***
- d. Zinc

13. In a normal male, the sperm production per day is?

- a. 60 million
- b. 80 million
- c. 50 million
- d. *300 million***

14. DNA is located in this part of the sperm.

- a. *Head***
- b. Tail
- c. Body
- d. Fibrous sheath

15. This type of sweat gland is function to maintain the body temperature.

- a. *Eccrine***
- b. Apocrine
- c. Eurocine
- d. None of the above

16. All are the functions of the Apocrine gland EXCEPT.

- a. Secretes fatty acid
- b. Secretes salt and water
- c. *Cooling down the body after exercise***
- d. Located in the armpits

17. The following are True statement EXCEPT.

- a. Sympathetic innervations influenced sweat glands
- b. Sebaceous glands secrete oily to protect the skin and prevent bacteria
- c. *Apocrine glands are located on the face, palms and sole of the feet***
- d. Sodium and potassium are the primary electrolytes

18. Saliva is composed of the following **EXCEPT**.

- a. Hyalurinic acid
- b. water
- c. Mucous
- d. Antibacterial compounds

19. Most common type of arthritis is?

- a. Osteoarthritis**
- b. Gout
- c. Inflammatory arthritis
- d. None of the above

20. The type of tears is cause by foreign body irritations.

- a. Reflex tears
- b. Basal tears**
- c. Emotional tears
- d. Desperation tears

21. The three layers of tear are the following **EXCEPT**.

- a. Meibomian gland
- b. Lacrimal gland
- c. Goblet cells
- d. Tear sac**

22. The function of tears.

- a. Protect the optic nerve
- b. Protect the upper eyelid
- c. Provide nutrient and oxygen of the cornea**
- d. None of the above

23. These receptor sites are activated to produce tear are?

- a. Nicotinic and muscarinic**
- b. Opoind and endorphins
- c. Adrenergic and histamine
- d. None of the above

24. Is a condition where eyes do not make enough tears?

- a. Bells Palsy
- b. Familial Dystautonomia
- c. Dry eye syndrome**
- d. Corneal abrasion

25. Prolactin is produced in?

- a. Anterior pituitary**
- b. Posterior pituitary
- c. Hypothalamus
- d. Medulla spinalis



26. The nutrient that is secreted to the lumen of Golgi apparatus.

- a. Cassein micelles
- b. Water
- c. Lactose
- d. All of the above**

27. Has anti-microbial property in the mucosal surface.

- a. Mucins**
- b. Statherins
- c. Amylase
- d. Carbonic anhydrase

28. Has digestive functions.

- a. Mucins
- b. Statherins
- c. Amylase**
- d. Carbonic anhydrase



29. Edema

- a. Accumulation of fluids in tissue**
- b. Swelling of tissue due to infection
- c. Expelled urine
- d. None of the above

30. Is expectorated from the respiratory tract.

a. Saliva

b. Mucins

c. Sputum

d. All of the above

Match the correct answer to the corresponding question.

D 31. Secreted by *Von Ebner's* gland

C 32. Bacterial Adhesion

F 33. Spermatozoa is produced

G 34. Aspermia

H 35. Oil secreting gland

A 36. Fatty acid secreting gland

B 37. Surface consists of Hyaluronic and this?

J 38. Osteoarthritis

E 39. Lipid layer of the eye

I 40. Mucous layer of the eye

A. Apocrine

B. Proteoglycan

C. Mucin

D. Lingual lipase

E. Meibomian gland

F. Sertoli cells

G. No ejaculate

H. Sebaceous gland

I. Goblet cell

J. Wear and tear

Goodluck!