


Course No: DNTS 2309  
Course Title: Physiology 1  
Date: 12/01/2015  
No. of Questions: (1)  
Time: 90 minute  
Using Calculator (No)

University of Palestine  
  
Final Exam  
1<sup>st</sup> Semester 2014/2015  
Total Grade: 60

Instructor Name: Dr.Mahmoud Alsh. Ali  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: \_\_\_\_\_  
Dep. / Specialist: \_\_\_\_\_  
Using Dictionary (No)

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**Question One: Choose one most correct answer:**

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1. Which of the following is one of the kidney functions?
  - a) Erythropoiesis
  - b) Blood sugar control
  - c) Lipids profile control
  - d) Albumin synthesis
  
2. The control of blood pressure by the kidneys includes?
  - a) Renin secretion
  - b) Aldosterone production
  - c) Calcium re-absorption
  - d) ADH destruction
  
3. The **1,25** vitamin D produced in the ?
  - a) Liver
  - b) Spleen
  - c) Kidneys
  - d) Parathyroid glands
  
4. The **25** vitamin D produced in the ?
  - a) Liver
  - b) Spleen
  - c) Kidneys
  - d) Parathyroid glands
  
5. The kidney controls the Acid-Base balance by?
  - a) HCO<sub>3</sub> re- absorption in proximal tubules and H<sup>+</sup> excretion in distal and collecting tubules
  - b) HCO<sub>3</sub> re- absorption in distal and collecting tubules and H<sup>+</sup> excretion in the proximal tubules
  - c) Potassium excretion
  - d) By ADH action
  
6. Which of the following increases the glomerular filtration rate?
  - a) Adrenalin
  - b) Noradrenaline
  - c) Endothilin
  - d) Angiotensin II

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7. The rise of intra-glomerular pressure leads to?
- a) Decrease in GFR
  - b) No effect on GFR
  - c) Increases BP
  - d) None is true
8. the largest surface area for reabsorption in renal tubule presents in which of the following part?
- a) Collecting ducts
  - b) Distal tubules
  - c) Proximal tubules
  - d) Loop of Henle
9. Which of the following parts of renal tubules is impermeable for water?
- a) Proximal tubules
  - b) Descending part of loop of Henle
  - c) Ascending part of loop of Henle
  - d) Ascending part of loop of Henle and early distal tubules
10. The triple co-transporter presents in which part of renal tubules?
- a) Proximal tubules
  - b) loop of Henle
  - c) collecting ducts
  - d) distal tubules
11. The ADH ( anti-diuretic Hormone) target is?
- a) Proximal tubules
  - b) loop of Henle
  - c) collecting ducts
  - d) distal tubules
12. The ANP ( Atrial Natriuretic Peptide ) action leads to?
- a) Increase water re-absorption
  - b) decrease water re-absorption
  - c) increase in Na ( sodium) excretion
  - d) Decrease in Na ( sodium) excretion

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**Using Dictionary (No)**

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13. The insulin is?
- a) A polypeptide hormone
  - b) A Cholesterol based hormone
  - c) An Amino-acid hormone
  - d) A catabolic hormone
14. Insulin is ?
- a) A catabolic hormone
  - b) Anabolic Hormone
  - c) Is one of the multiple hormones which reduces blood sugar
  - d) Controlled by pituitary hormones
15. Which of the following sentences is true?
- a) Insulin produced by Alpha cells
  - b) Somatostatin produced by Delta cells (D cells)
  - c) Glucagon produced by Beta cells
  - d) Pancreatic polypeptide produced by D cells
16. Which of the following hormones promotes glycogenesis ( glycogen synthesis)?
- a) Glucagon
  - b) Insulin
  - c) Thyroxin
  - d) Amylin
17. Which of the following hormones stimulates Glycogenolysis ( Glycogen lyses )?
- a) Glucagon
  - b) Insulin
  - c) Thyroxin
  - d) Amylin
18. The effect of steroid hormones in fat metabolism includes?
- a) Lipolysis in peripheral parts of the body with fat deposition in central body part
  - b) Lipid synthesis overall the body
  - c) Destruction of the abdominal fat
  - d) No effect on fat metabolism

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- 
19. Which of the following statements is true regarding Aldosterone ?
- It is produced by Zone fasciculata of suprarenal gland
  - Its targets is in the loop of Henle
  - Its stimulates potassium ( K<sup>+</sup>) Re-absorption in renal tubules
  - Angiotensin II ( ATII) stimulates its (Aldosterone) secretion
20. Which of the following hormones have target mainly in the collecting tubules?
- Anti diuretic hormone ( ADH)
  - Parathyroid hormone ( PTH )
  - Insulin
  - Aldosterone
21. Which of the following hormones is responsible for the entrance for glucose into the cells?
- Glucagon
  - Insulin
  - Steroids
  - Somatostatin
22. Which one of the following hormones leads to a decrease in exocrine glands secretion ?
- Insulin
  - Somatostatin
  - Aldosterone
  - Pancreatic polypeptide
23. Vitamin D leads to which of the following actions in the intestine? ( Choose Most true answer)
- Increases Calcium absorption
  - decreases Calcium absorption
  - Increases Calcium absorption and decreases Phosphate absorption
  - Increases Calcium and Phosphate absorption
24. Vitamin D leads to which of the following actions in the kidneys? ( Choose the most correct answer)
- decreases Calcium re-absorption
  - Increases Calcium and Phosphate re- absorption
  - Increases Calcium re-absorption and decreases Phosphate re-absorption
  - Increases Calcium re-absorption

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**Using Dictionary (No)**

- 
25. The parathyroid hormone leads to which of the following actions in the kidneys?
- a) decreases Calcium re-absorption
  - b) Increases Calcium and Phosphate re- absorption
  - c) Increases Calcium re-absorption and Phosphate excretion
  - d) Increases phosphate re-absorption
26. The mineralization of the bones is stimulated by which of the following hormones?
- a) PTH
  - b) Vit D
  - c) Aldosterone
  - d) Insulin
27. The bone demineralization could be induced by which of the following hormones ?
- a) PTH
  - b) Vit D
  - c) Aldosterone
  - d) Calcitonin
28. The respiratory Centre is located in ?
- a) Midbrain
  - b) Medulla
  - c) Occipital pole
  - d) Hypothalamus
29. The ACE ( angiotensin converting enzyme ) which converts AT I to AT II is presents in?
- a) Lungs
  - b) Kidneys
  - c) Skin
  - d) Liver
30. The surfactant is produced by?
- a) Pneumocytes type I
  - b) Pneumocytes type II
  - c) Macrophages
  - d) Hepatocytes
31. The surfactant action leads to?
- a) Increases surface tension of alveoli
  - b) Decreases surface tension
  - c) Has no effect on ventilation
  - d) Is vital for gas exchange

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- 
32. The lung blood flow is characterized by?
- a) High pressure and fast flow
  - b) High pressure and slow flow
  - c) High speed and low pressure
  - d) Equal to 10 % of cardiac output per minute
33. The medullary inspiratory center is stimulated mainly by?
- a) CO<sub>2</sub>
  - b) O<sub>2</sub>
  - c) CO
  - d) HCO<sub>3</sub>
34. The main stimulants of respiratory centers are ?
- a) CO<sub>2</sub>, O<sub>2</sub>, pH
  - b) CO
  - c) BP
  - d) pH
35. The main respiratory muscle is ?
- a) Diaphragm
  - b) Internal intercostals muscles
  - c) External intercostals muscles
  - d) Sternocleidomastoid muscle
36. The thyroid hormone is?
- a) Amino acid based
  - b) Cholesterol based
  - c) Polypeptide hormone
  - d) None is true
37. The control of thyroid hormones is by?
- a) By negative feedback
  - b) By humeral control
  - c) By neuronal control
  - d) Spontaneous
38. The first step in synthesis of thyroid hormones is?
- a) Coupling
  - b) Thyroglobulin formation
  - c) De-iodination
  - d) Iodination

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- 
39. The site of the coupling stage of thyroid hormones synthesis is ?
- a) Follicular cells
  - b) Blood
  - c) Para- follicular cells
  - d) Colloid
40. Thyroid hormones circulates in plasma bound with?
- a) Thyroid binding globulin( TBG)
  - b) Thyroid binding Albumin (TBA)
  - c) Thyroid binding pre-albumin (TBPA)
  - d) All of the above
41. The Receptors of thyroid hormones are?
- a) Cytoplasmatic
  - b) Cell membrane
  - c) Nuclear
  - d) All of the above
42. The zone fasciculate of adrenal gland produces?
- a) Adrenalin
  - b) Androgens and corticosteroids
  - c) DHEA ( dehydroepiandrosteron)
  - d) Aldosterone
43. The reticularis layer produces?
- a) Adrenalin
  - b) Corticosteroids
  - c) Androgens and DHEA ( dehydroepiandrosteron)
  - d) Aldosterone
44. The first step in haemostasis is?
- a) Platelets adhesion
  - b) Platelets aggregation
  - c) Coagulation
  - d) Vasospasm
45. The coagulation is defined as ?
- a) Formation of platelets plug
  - b) The activation of factor X
  - c) The fibrinolysis
  - d) The formation of fibrin meshwork

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- 
46. The activation of coagulation factor X is mediated by?
- a) Platelets
  - b) Extrinsic pathway
  - c) Intrinsic pathway
  - d) B and C answers
47. The active factor X (Xa) leads to?
- a) Converts plasminogen to plasmin
  - b) Converts fibrinogen to fibrin
  - c) Converts pro-thrombin to thrombin
  - d) Activates factor VII
48. Thrombin activates which of the following?
- a) Plasminogen
  - b) Fibrinogen
  - c) Factor X
  - d) Both Plasminogen and Fibrinogen
49. Which substance is responsible for fibrin band destruction?
- a) Factor XIII
  - b) Factor X
  - c) Plasminogen
  - d) Heparin
50. All blood cells originates from?
- a) Stem cells
  - b) Myelocytes
  - c) Prothrombocytes
  - d) Kupfers cells
51. The erythropoietin is responsible for ?
- a) maturation of RBCs
  - b) shifting of stem cells to RBCs
  - c) Iron corporation
  - d) RBCs growth inhibition
52. Types of hemostasis?
- a) Primary
  - b) Secondary
  - c) Tertiary
  - d) Primary and secondary



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- 
53. The first platelets response to bleeding is?
- a) Aggregation
  - b) Degradation
  - c) Fibrinogenesis
  - d) Adhesion
54. The adhesion of platelets leads to activation of which process ?
- a) Aggregation
  - b) Coagulation factors
  - c) Fibrin formation
  - d) Factor X
55. Platelets adhesion is mediated by?
- a) Fibrin
  - b) Heparin
  - c) Prothrombin
  - d) Von Welbrand factor
56. The platelets aggregation is stimulated by?
- a) Fibrin
  - b) ADP ( Adenosin diphosphate)
  - c) Prothrombin
  - d) Von Wellbrand factor (vWF)
57. Insulin destructed in which of the following organs?
- a) Pancreas
  - b) Liver
  - c) Kidney
  - d) In both Liver and kidneys
58. Which of the following is a Pure endocrine organ?
- a) Pancreas
  - b) Parathyroid Glands
  - c) Kidney
  - d) Liver
59. Pituitary gland produces?
- a) Trophic hormones
  - b) Stimulating hormones
  - c) ADH
  - d) Somatostatin

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60. Posterior pituitary gland hormones ?

- a) ADH and Vasopressin
- b) Prolactin
- c) TSH
- d) ACTH

61. The endocrine glands in the brain?

- a) Pineal gland
- b) Pituitary
- c) Hypothalamus
- d) All of the above

62. The types of hormonal receptors?


- a) Cell membran
- b) Cytoplasmatic
- c) Nuclear
- d) All of the above

63. The types of hormonal control ?

- a) Neuronal
- b) Self Control
- c) Immune control
- d) None of the above

**End of Questions**  
*Good Luck*

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## Answer Sheet

Question	Answer	Question	Answer	Question	Answer	Question	Answer
1		17		33		49	
2		18		34		50	
3		19		35		51	
4		20		36		52	
5		21		37		53	
6		22		38		54	
7		23		39		55	
8		24		40		56	
9		25		41		57	
10		26		42		58	
11		27		43		59	
12		28		44		60	
13		29		45		61	
14		30		46		62	
15		31		47		63	
16		32		48		64	