



Course No: DNTS 1204  
Course Title: Cell Biology  
Date: 24-07-2013  
No. of Questions: (4)  
Time: 1 hours  
Using Calculator (No)

University of Palestine  
  
Summer Term Exam  
2013/2012  
Total Grade: 20

Instructor: Dr. Essameddin Elzatma  
Student No.: \_\_\_\_\_  
Student Name: \_\_\_\_\_  
College Name: Dentistry College  
Dep. / Specialist: \_\_\_\_\_  
Using Dictionary (No)

D) autoimmune diseases target the body's cells.

**11- The two main hormones which control the blood glucose level are:**

- A) insulin and adrenaline  
B) glucagon and adrenaline  
C) adrenaline and noradrenaline  
D) insulin and glucagon

**12- a substance found on the surface of microbes and identified by immune cells is called**

- A) antigens  
B) interferons  
C) interleukin  
D) receptor proteins

**13- B and T lymphocytes recognize pathogens by**

- A) antigens  
B) interferons  
C) interleukins  
D) receptor proteins

**14- Tumor-suppressor genes includes *p53* and *Rb*. How would their mutation likely affect the cell?**

- A) the cell would divide constantly because of the loss of cell cycle repression.  
B) the cell would divide much less frequently because of the extra cell cycle repression  
C) the cell would divide normally because these genes have no effect on cell cycle control.  
D) the cell would commit suicide by apoptosis.

**15- Cells that are metabolically active but not destined to proliferate are said to be in \_\_\_\_\_ phase**

- A) G<sub>2</sub>  
B) S phase  
C) metaphase  
D) G<sub>0</sub>  
E) G<sub>1</sub>

**16- A eukaryotic cell that receives a "go-ahead" signal at the G<sub>1</sub> checkpoint of the cell cycle will**

- A) complete the cycle and divide  
B) move directly into the M phase  
C) move directly into the G<sub>2</sub> phase  
D) enter a resting stage.  
B) stop growing.

**17- What is diabetes insipidus?**

- A) undersecretion of ADH.  
B) undersecretion of adrenal cortex.  
C) high levels of glucose in the bloodstream  
D) a form of high blood pressure.

**18- Steroid hormones**

- A) are produced only by the adrenal cortex.  
B) have only cell surface receptors.  
C) are water-soluble.  
D) act by altering gene expression in the target cell.

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**19- hypothalamus produces the two hormones**

- A) oxytocin and ADH
- B) oxytoxin and epinephrine
- C) ADH and growth hormone
- D) ADH and ACTH

**20- Brown eye is a dominant trait over green eye, that means**

- A) one brown allele and one green allele produce green eye color
- B) one brown allele and one green allele produce brown eye color
- C) two brown alleles should be present to produce brown eye color
- D) one brown allele and one green allele produce blue eye color

**Q2: Indicate the following statements are true (T) or false (F). (5 Marks).**

- 1- Monocyte are the precursors of macrophages. (T / F)
- 2- The immune response is terminated or decreased by suppressor B cells. (T / F)
- 3- Lymphocytes are phagocytic cells. (T / F)
- 4- Your body has millions of different antibodies for detecting millions of different antigens because you have millions of different antibody genes. (T / F)
- 5- Activated helper T cells release interleukin- 2. (T / F)
- 6- A "fight or flight" situation stimulates the secretion of adrenaline. (T / F)
- 7- An enlargement of the thyroid gland is the condition known as parathyroidism. (T / F)
- 8- Calcium level in the blood is regulated by the adrenal medulla. (T / F)
- 9- The hormone involved in rhythmic activities, such as day/night and seasonal changes is melatonin. (T / F)
- 10- The hormones of the pituitary gland reach their target cells through the neurosecretory cells (T / F)

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**Q3: Match the correct answer. (5 Marks)**

Antibodies	-----	1- cortisol.
Cyclic AMP	-----	2- phagocytose microbes.
Endocrine glands	-----	3- acts as a first messenger.
Immune tolerance	-----	4- recognize extracellular pathogens.
Amino acid hormones	-----	5- act as a second messenger.
Macrophage	-----	6- cretinism.
Cytokines	-----	7- ductless organs that secrete hormones.
Adrenal Cortex	-----	8- non-specific immune defense.
Hypothyroidism	-----	9- secreted by immune cells and affect other cells.
Innate immunity	-----	10- discriminate between self and non-self antigens cells.

**Q4: Define the following terms. (5 Marks)**

- 1- Reverse transcriptase
- 2- Acquired immune system
- 3- Antagonistic hormones
- 4- Plasma cells
- 5- Negative feedback of hormones

**GOOD LUCK**