Date: 20-03-2014 No. of Questions: (3) Time: 1 hours Using Calculator (No) **University of Palestine**

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Q1: Multiple choice questions (10 Marks)

- A) receiving a blood transfusion
- B) performing experiments with HIV
- C) shaking hands with a person who has AIDS
- D) having sexual contact with an HIV-infected person

- A) insulin and adrenaline
 C) adrenaline and noradrinaline
 D) insulin and glucagon
- 3- Endocrine glands
 - A) function only after puberty. B) function only before puberty.
 - C) release products through ducts. D) release products into the bloodstream.

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

- A) insulin and adrenaline

 B) glucagon and adrenaline
- C) adrenaline and noradrinaline D) insulin and glucagon

5- 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.

6- Cells that are metabolically active but not destined to proliferate are said to be in ____ phase

A) G_2 B) S phase C) metaphase D) G_0 E) G_1

7- A eukaryotic cell that receives a "go-ahead" signal at the G1 checkpoint of the cell cycle will

- A) complete the cycle and divide
- B) move directly into the M phase
- C) move directly into the G₂ phase
- D) enter a resting stage.
- B) stop growing.

8- 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.

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9- 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.

10- hypothalamus produces the two hormones

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

11- 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

12- Tumor suppressor gene p53 regulates the cell cycle transition from
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A. S to G2

B. M to G1

C. G2 to M

D. M to G2

E. G1 to S

13- Pro-apoptotic members of the Bcl-2 family are located where?

A. Inner mitochondial membrane.

B. Outer mitochondrial membrane.

C. Matrix

D. Nucleus

14- All the followings are characteristics of apoptosis EXCEPT

A. Disintegration of internal organelles.

B. Induction of inflammations.

C. Agregation of DNA.

D. Induction of caspases enzymes

15- Which of the followings are the pro-apoptotic family members?

A. Bax and Bcl-2

B. Bak and Bax

C. Bid and Bcl-2

D. Bcl-2 and Bcl-XL

E. Bcl-xL and Bid

16- Which two hormones are released from the posterior lobe of the pituitary gland?

A. ADH and GH

B. CTH and TSH

C. ADH and oxytocin

D. TRH and CRH

17- Hormones released by nerve cells of the _____ regulate hormones secreted by the

A. hypothalamus, anterior pituitary.

B. hypothalamus, posterior pituitary.

C. anterior pituitary, hypothalamus.

D. cerebellum, posterior pituitary

18- Which statement is false?

A. the endocrine system is composed of ductless glands.

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- B. contents of the endocrine system are released into the bloodstream.
- C. the mammory gland is part of the endocrine system.
- D. exocrine glands are not part of the endocrine system

19- V	What	is the	target	of A	CTH?
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- B. thyroid gland A. most cells C. mammary glands D. adrenal cortex
- 20- A cell with damaged DNA can lead to cancer if it is allowed to divide. In the normally functioning cell cycle such cells are prevented from division by ____.
 - A- the G_1/S and G_2/M checkpoints
 - B- the product of mutated p53 genes
 - C- the M checkpoint
 - D- cdc mutations

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

- 1- A "fight or flight" situation stimulates the secretion of adrenaline. (T / F)
- 2- An enlargement of the thyroid gland is the condition known as parathyroidism. (T / F)
- 3- Calcium level in the blood is regulated by the adrenal medulla. (T / F)
- **4-** The hormone involved in rhythmic activities, such as day/night and seasonal changes is melatonin. (T / F)
- 5- The hormones of the pituitary gland reach their target cells through the neurosecretory cells. (T / **F**)
- 6- Thyroid hormone deficiency is known as hyperthyroidism. (**T** / **F**)
- 7- In females, LH and FSH stimulate secretion of estrogen and progesterone from the ovaries. (T /
- 8- Insulin lowers the blood sugar level by stimulating muscle to store glucose or use it for energy. (T / F)
- 9- The endocrine glands secrete hormones and deliver them to the blood through specialized tubes. (T / F)
- 10-Cells that are metabolically active but not destined to proliferate are said to be in G_0 phase.

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1- Mention	two bt	iiiering	systems	within	tne n	uman	boay

- 2- Which hormonal deficiency could cause diabetes insipidus
- 3- Antagonistic hormones
- 4- apoptotic bodies
- 5- Negative feedback of hormones

GOOD LUCK