

Course No:
Course Title: General Biology
Date: 14/ 1 / 2017
No. of Questions: (5)
Time: 2 hours
Using Calculator (No)

University of Palestine



Final Exam
2016 / 2017
Total Grade: 50

Instructor Name: Maher Jouda,
Belal Shalaby and Manal G el - Astal
Student No.: _____
Student Name: _____
College Name: كلية الدراسات المتوسطة
Dep. / Specialist: تمريض
Using Dictionary (No)

Question One: short note answer (17.5 points)

1. Write the function of Muscular tissue (2 points)

.....

.....

.....

.....

.....

2. Write the function of the blood (2.5 points)

.....

.....

.....

.....

.....

.....

3. List four genetic diseases (2 points)

- a.
- b.
- c.
- d.

4. List the formed elements of the blood (1.5 points)

- a.
- b.
- c.

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5. List the types of inheritance (2 points)

- a.
- b.
- c.
- d.

6. Compare between the followings: (5 points)

#	Comparison's points	A	B
1.	Number of divisions	Mitosis	Meiosis
2.	Type of antibody	Blood group A	Blood group O
3.	Percentage (%)	Plasma	Cellular elements
4.	Origin	Lysosomes	Peroxisomes
5.	Function	Cilia	Stereocillia

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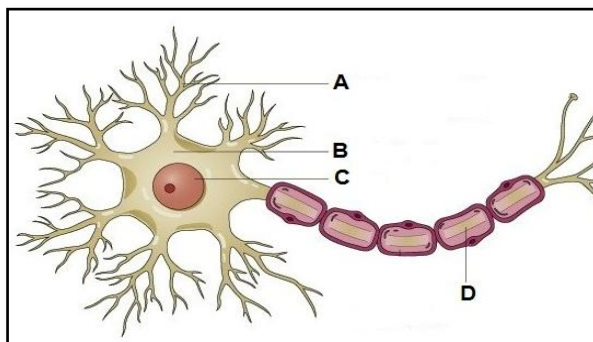
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7. Identify: (2.5 points)



The figure is the structure of.....

Identify Structure A, B, C, and D

A isB is

C is.....D is.....

Question Two: MatchThe following (5 points)

The statement	The system
1. () Protect the body from the outside world and regulate body temperature.	A. Nervous system
2. () The control center of the human body.	B. Lymphatic system
3. () Circulating blood to deliver oxygen and nutrients to every part of the body.	C. Endocrine system
4. () This system consists of bones, cartilage, and joints	D. Respiratory system
5. () This system helps move the body and move materials inside the body	E. Integumentary system
6. () Collection of glands	F. Urinary system
7. () The main function is gas exchange	G. Muscular system
8. () When you eat, your body uses this system to digest food to make energy.	H. Circulatory system
9. () Is part of the circulatory system. Play an important part in the immune system	I. Digestive system
10. () The function is filtration of the blood	J. Skeletal System

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Question Three: Complete The following(6 points)

**(Genotype - Ribosomes - Organ - TissueBuilders - Binary Fission – Immunology - Allele -
Pentose Sugar - Centromere- Five – Mitochondria– Fertilization)**

1. Proteins is commonly known as the.....
2. The living organisms divided intokingdoms
3. The nucleotide composed of three major Components: Nitrogen base, Phosphate group and.....
4. plays important role in protein synthesis
5.considered as power house of the cell
6. Prokaryotes reproduce by a type of cell division called.....
7. holds the two sister chromatides together
8. Union between sperm and ovum called.....
9. The genetic makeup of an organism called
10.is an alternative form of a gene.
11.consists of several different tissues grouped together.
12. Is the study of the body defenses mechanism.

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Question Four: State which of the following is true (✓) and which is false (✗) (6.5 points)

#	The statement
1. ()	No life can exist without protoplasm
2. ()	Nuclear pores occur in the nuclear envelope
3. ()	This is only one Golgi complex in the cell
4. ()	DNA in bacteria are three chromosomes that consist of a circular DNA and proteins.
5. ()	Blood is a fluid connective tissue
6. ()	G1 is the shortest phase of cell cycle.
7. ()	Glycolysis occurs in mitochondria
8. ()	Glycolysis and the krebs cycle produce only 4 ATP molecules per glucose molecule.
9. ()	Mitosis produced somatic cells but meiosis produced sperm and ova.
10. ()	In blood group system, A allele is dominant to B allele
11. ()	Connective tissue supports, protects and binds between other tissues
12. ()	DNA Replication occurs during interphase before meiosisI and before meiosisII
13. ()	44 + XY is the somatic cell structure of female

Question Five: Circle the most correct answer(15 points)

- The study of transmission of genetic information is:**
 - Morphology
 - Cytology
 - Histology
 - Genetics
- Synthesis of mRNA from DNA is called:**
 - Translation
 - Transcription
 - Polypeptide
 - All of the above
- The cell that lacks a true nucleus:**
 - Eukaryotic cell
 - Prokaryotic cell
 - Fungi
 - All of the above

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4. In the figure, the type of tissue is:
- Epithelial tissue.
 - Connective tissue
 - Muscular tissue
 - Neural tissue.
5. Function of nucleolus:
- Play important role in ribosomes synthesis
 - Play important role in fat synthesis
 - Play role in detoxification of drugs
 - All of the above
6. Consist of eight steps and occurs in matrix of mitochondria:
- Glycolysis
 - Krebs cycle
 - Electron transport chain
 - None of the above
7. Microtubules, microfilaments and intermediate filaments considered as:
- Cytoskeleton system
 - Respiratory system
 - Division system
 - None of the above
8. Interphase usually accounts for about% of the time during each cell cycle
- 10%
 - 20%
 - 90%
 - 50%
9. In each generation, meiosis ----- the chromosomes number, fertilization -----the chromosomes number again and mitosis -----that number in every somatic cell.
- Reduce, conserves, doubles
 - Reduce, doubles, conserves
 - Doubles, reduce, conserves
 - Conserves, reduce, doubles

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10. DNA replicates during:

- a. G1 phase
- b. S phase
- c. M phase
- d. Cytokines

11. Function of the cell membrane:

- a. Maintain the shape of the cell
- b. Protect the cell
- c. Control the exchange of materials between the cell and its surrounded
- d. All of the above

12. In the desmosome junction:

- a. Space between two cells is 250 angstrom
- b. Narrow channels communicate the two cells.
- c. Space between two cells is 150 angstrom
- d. No space between cells

13. Every NADH in cytoplasm yield.....

- a. 2 ATP
- b. 3 ATP
- c. One ATP
- d. 4 ATP

14. "Cytokinesis" refers to.....

- a. division of the nucleus
- b. division of the cytoplasm
- c. reduction in the number of chromosomes
- d. movement of a cell from one place to another

15. Reproductive cells (sperm cells and egg cells) have:

- a. 23 chromosomes
- b. 46 chromosome
- c. 50 chromosome
- d. 2 chromosome

16. Number of daughter cells after meiosis:

- a. 2 haploid (n) cells
- b. 2 diploid (2n) cells
- c. 4 haploid (n) cells
- d. 4 diploid (2n) cells

17. AB blood group is an example of:

- a. Complete dominance.
- b. Incomplete dominance.
- c. Co dominance.
- d. None of the above

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18. The inheritance structure of Down syndrome female is:
- 44 + XO
 - 45 + XY
 - 45 + XX
 - 44 + XXY
19. Universal donor has a blood group type:
- A
 - B
 - O
 - AB
20. Hemolytic disease of the newborn (Erythroblastosis) may result if:
- The mother is Rh +ve and the father Rh –ve
 - Both the mother and father are Rh –ve
 - Both the mother and father are Rh +ve
 - An Rh –ve mother carries an Rh +ve fetus
21. Abdomen is the cavity:
- Above the diaphragm
 - Which called chest cavity
 - Below the diaphragm
 - Both b and c are correct
22. The longest cell in human body is:
- Neuron
 - Axon
 - Soma
 - Epithelial cell
23. Function of platelets is:
- Important in defense mechanisms
 - Important in blood clotting
 - Important in transport oxygen
 - All of the above
24. When the zygote having two identical alleles for a given trait called:
- Homozygous
 - Heterozygous
 - Gene
 - Dominant allele
25. Intermediate phenotype produce in:
- Incomplete dominance
 - Complete dominance.
 - Co dominance.
 - Multiple allele

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26. A person with klinefelter syndrome is a _____

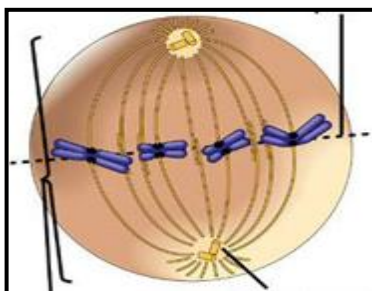
- a. Female, xo
- b. Male, xxy
- c. Male, xyy
- d. Female, xxx

27. In the first mendel's law the result appear as:

- a. 3:1
- b. 9:3:3:1
- c. 1:1
- d. 2:2:1

28. Net equation of formation of acetyl CoA:

- a. Glucose $\xrightarrow{\text{in cytoplasm}}$ 2 pyruvate + 2ATP + 2(NADH)
Coenzyme A
- b. 2 Pyruvate $\xrightarrow{\text{Coenzyme A}}$ 2 Acetyl CoA + 2NADH + 2CO₂
- c. 2 acetylCoA $\xrightarrow{\text{In mitochondrion}}$ 4 CO₂ + 6 NADH + 2 FADH₂ + 2 ATP
- d. 2 acetylCoA $\xrightarrow{\text{In mitochondrion}}$ 5 CO₂ + 10 NADH + 2 FADH₂ + 2 ATP



29. The phase in the figure is in mitosis:

- a. Prophase
- b. Metaphase
- c. Anaphase
- d. Interphase

30. In eukaryotic cell, transcription occurs in:

- a. The ribosome
- b. The cytoplasm
- c. The nucleus
- d. The lysosome

Best wishes
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للطلبة المتغيبين عن الامتحان النصفيا يجب عن الاسئلة الاتية

Circle the most correct answer

1. **Example of asexual reproduction is / are:**
 - a. Budding
 - b. Binary fission
 - c. Sporulation
 - d. All of the above
2. **Two molecules of monosaccharides form a disaccharide such as:**
 - a. Sucrose
 - b. Glucose
 - c. Starch
 - d. None of the above
3. **The second X chromosome called**
 - a. Golgi body
 - b. Sex body
 - c. Barr's body
 - d. Normal body
4. **The function of smooth endoplasmic reticulum in stomach:**
 - a. Responsible for storage of fats
 - b. Responsible for secretion of HCl
 - c. Responsible for muscle contraction
 - d. All of the above
5. **Responsible for cytoplasmic streaming:**
 - a. Microtubules
 - b. Centrioles
 - c. Lysosome
 - d. Filaments
6. **When the carbohydrate molecules linked to lipid called:**
 - a. Glycolipid
 - b. Glycoprotein
 - c. Glycolysis
 - d. Glucose
7. **The glycoprotein and the glycolipid form:**
 - a. Cell membrane
 - b. Cell lipids
 - c. Cell coat
 - d. None of the above

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8. In the tight junction:

- a. Space between two cells is 250 angstrom
- b. Space between two cells is 150 angstrom
- c. No space between cells
- d. none of the above

Complete The following

(Hemidesmosome - Cytoskeleton–Botany - Cell membrane – Fluid mosaic model - Gap -
Tubulin - Semipermeable - Mitochondrial matrix)

- 1. Microtubules are formed of protein known as.....
- 2.Is the compartment enclosed by the inner membrane of mitochondria.
- 3. All eukaryotic and prokaryotic cells surrounded by.....
- 4. Allows passages of certain materials but not others means.....
- 5. The our present working model of the membrane is.....
- 6. Injunction, narrow channels communicate the two cells with each other
- 7.Is the science which deals with the study of plant

Best wishes

Manal, Belal, Maher