

Zoology Department

قسم علم الحيوان

Final Exam: General Zoology (100 Z)

Time: Two Hours

Answer the following questions (50 marks)

I- Choose the correct answer: (8 marks)

- 1- There is no life without cells (true – false).
- 2- Prokaryotic cells lack nucleus and membranous organelle (true- false).
- 3- Cell is structural and functional unit of all living organisms (true- false).
- 4- The cell membrane is permeable membrane surrounds the cell (true- false).
- 5- Fats and oils can pass directly through the cell membrane (true- false).
- 6- Molecules move from high to low concentration in simple passive transport (true-false).
- 7- Mitochondria make the ATP energy by cellular respiration (true- false).
- 8- Number of cranial nerves is (12-31-10).
- 9- Bipolar nerve cell is found in (retina- kidney- liver).
- 10- Nerve impulse passes in nerve fiber in (electrical- chemical- electrical and chemical) form.
- 11- Blood is type of (epithelial- connective- muscular) tissue.
- 12- Cardiac muscles are (striated- voluntary- striated and voluntary).
- 13- Ovary and testis are types of (epithelial- muscular- connective) tissues>
- 14- The type of division in somatic cells is (mitosis –meiosis).
- 15- Cardiac muscle is (striated- smooth-voluntary).
- 16- The function of myelin sheath is (insulation- prevent double talk- both function).

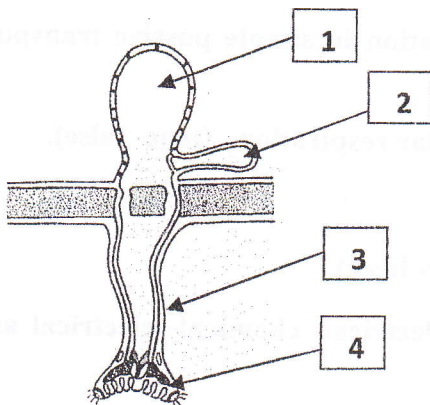
II- Answer on the following questions(12 marks,3 marks each)

- 1- Compare between the FOUR forms of massive transport.
- 2- Mentioned the characters and name of membranous organelles.
- 3- What are the types of nerve cells according to their functions.
- 4 - Write on the main components of blood.

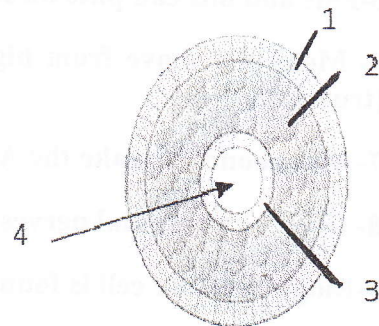
III- complete the following sentences with the correct answer(15 marks)

- 1- phylum annelid classified into three classes
- 2- Gametogenesis it's the process of formation
- 3- The animal eggs are classified according to the amount and the distribution of yolk into
- 4- Body cavity of Platyhelminthes Nematoda and Annelida
- 5- Locomotion in paramecium by
- 6- Excretory system of annelid by
- 7- In chordate the direction of blood flow in the dorsal
- 8- The circulatory system in arthropoda is

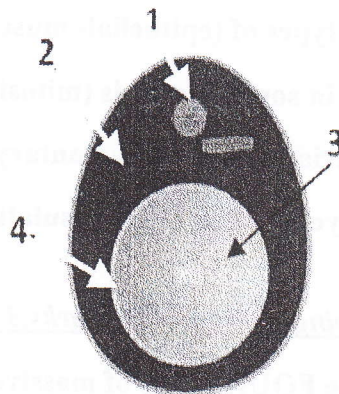
IV- Answer the following (15 marks):



5 Identify the picture



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