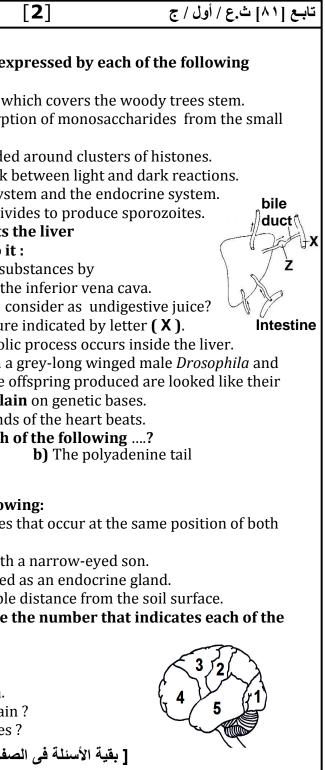
Tinks Seession j BIOLOGY (For the First and Second Stages) Time: 3 Hours [Ithe product of the following: Ithe questions only of the following: Question One: Answer FIVE questions only of the following: Question One: A) Choose the correct answer for each of the following, then write it only in your answer paper : 1. During spermatogenesis, the meiosis I occurs in phase. a) multiplication b) growth c) maturation d) metamorphosis 2. The ratio between the quantity of DNA in uterus cells and kidneys' cells is a) Increase of root cells elongation b) 1: 1 c) 3: 1 d) 1: 2 3. High concentration of auxins causes		Question Two: A) Write the scientific term that is exp statements: 1. Openings exist in the cork layer wh
		2. A hormone stimulates the absorption
		 A hormone stimulates the absorption intestine. They are formed by DNA wounded Two compounds represent a link be The link between the nervous system A method by which the oocyst divide The opposite figure represents the and the vessels appropriated to it.
 acid starting with glucose-6-phosphat C) 1. Which of the following is haploid a) Zygospore of <i>Spirogyra</i> c) Body cells in drones of honey bee 2. How can you tell whether the repeat 	e. or diploid: b) Ciliated sperms of <i>Polypodium</i>	 b) Hearing center. c) Center of skin heat sensation. 2. Where is the fifth lobe in the brain 3. What is the function of meningies ?



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 C) 1. Study the opposite figure which represents an experiment, and answer: a) What is the purpose of carrying out this experiment ? b) How can you detect the substance (X) ? c) What does the letter (Y) indicate? 2. What are the consequences for each of the following?? a) Thyroid gland stops the secretion of calcitonin hormone. b) Hyposecretion of insulin hormone. c) Iodine deficiency in food, water and air. d) Hypersecretion of parathormone hormone. 	 C) 1. Transportation in the phloem is an Show where ATP molecules are exithe phloem tissue. 2. The opposite graph illustrates a ner a) The state of the nerve cell memb during the period from (b) to (c) ions which inflow inside in this pb) The changes that occur during the from (c) to (d). c) Concentration of (+ve) ions during the period from (a) to(b) 	
 Question Four: A) Write the following statements after correcting the underlined words: The gene responsible for the formation of insulin is located on the <u>ninth</u> chromosome. Products of digestion which pass into the lymphatic route are empty into the <u>hepatic portal vein</u>. The nerve bundle is formed of a group of nerve fibers connected by <u>epithelial tissues</u>. The egg inside the embryo sac is located between the <u>antipodal</u> cells. In higher plants, water and mineral salts are transported by means of specialized <u>medullary</u> tissues. Antigens are present <u>in plasma</u> of the human blood. B) What is the difference between each two of the following? Natural and artificial parthenogenesis (in terms of the concept and an example for each). Show with a labelled diagram <u>only</u> the structure of a human bony vertebra. What is your explanation for the constant remaining of a part of the air inside the lungs after the end of expiration? 	Question Six:A) Choose from the column (B) what s complete statements in your answerColumn (A)1. Spirogyra alga reproduces2. Aphid insect reproduces3. Star fish reproduces4. Mushroom fungus reproduces4. Mushroom fungus reproduces3. Star fish cell anaemia diseased in (2). The sickle-cell anaemia diseased in (2). The lymphatic system is considered3. Shivering the body during winter.4. Shedding the leaves of some plants5. The pituitary gland has the ability the of DNA molecule and a plasmid. Show this piece of DNA into the plasmid.2. The following figure represents one	
Question Five: A) Mention the site and function for each of the following: 1) The site CCA 2) The starch sheath B) 1. What do you expect in each of the following cases? a) Occurance of triploidy in the human fertilized egg. b) Presence of an insufficient amount of the co-enzyme NADP in a plant. c) A person with blood group (A) received blood of (AB)group. d) Rapid evaporation of guttation water. 2. Mendel was able to distinguish between two pea plants with pink flowers, one of them was hybrid and the other was pure. Explain this on genetic bases. [بقیة الأسئلة فی الصفحة الرابعة]	processes within the cell : a) What is the name of this process b) Write what is indicated by letter c) What is the function of (B)? 5 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5	

