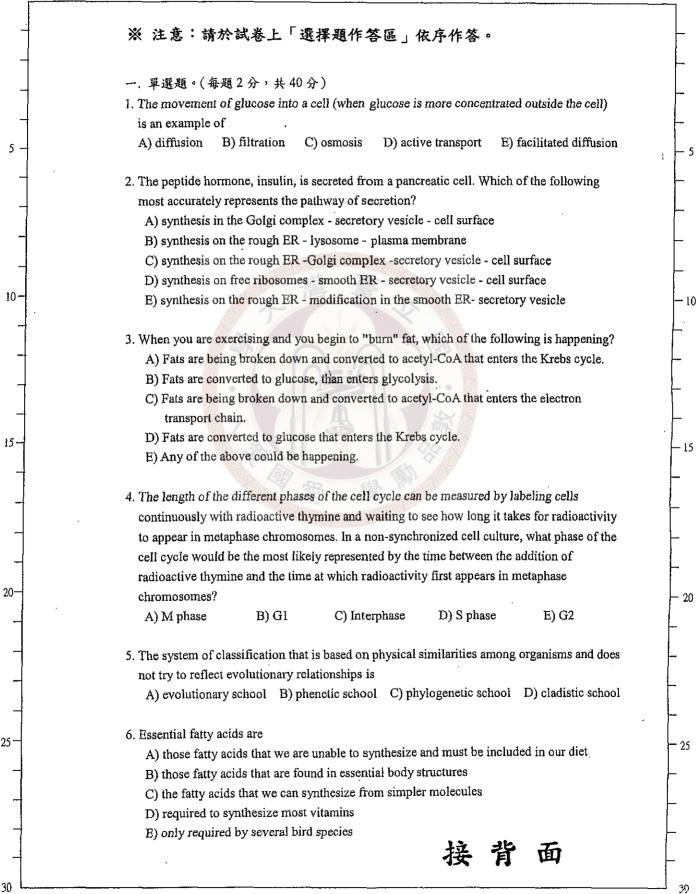
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題號:41 科目: 普通生物學(B) 共 4 頁之第 2 頁 7. The organization of blood and water flow in a fish's gills increases the fish's ability to extract oxygen from the water because A) water flows in two directions over the gills, once during inhalation and again past the gills during exhalation B) the thick blood vessels in the gills bring very large amounts of blood 5 C) the deoxygenated blood entering a gill lamella encounters oxygenated water first D) the deoxygenated blood entering a gill lamella encounters deoxygenated water first E) None of the choices are correct. 8. The immune system is capable of mounting specific responses to particular microorganisms because A) stem cells determine which type of B and T cells to make B) lymphocytes are able to change their antigen specificity as required to fight infection 10 C) the body contains an enormous diversity of lymphocytes, each with a specific kind of antigen receptor D) stem cells make different antigen receptors depending on the invading microorganism E) stem cells are able to change 9. What is the function of the urea reabsorption that takes place in the renal collecting ducts? A) It restores the correct concentration of blood urea. 15 B) It increases the osmotic concentration of the interstitial fluid in the renal medulla so that more water can be extracted from the urine. C) It reduces the salinity of the renal medulla and thus helps regulate how much water is reabsorbed from the urine. D) It induced NaCl to move into the capillaries and thus helps maintain blood salinity. E) The urea enters the ascending limb of the loop of Henle and from there is excreted in the urine. 20 10. What does gastrulation accomplish? A) It changes a solid embryo into a hollow morula. B) It creates the neural tube by invagination of the ectoderm. C) It creates the notochord by invagination of the ectoderm. D) It changes the solid blastula into a hollow embryo that has three tissue layers. E) It changes the hollow blastula into a hollow embryo that has three tissue layers. 25 11. The driving force that pushes the root tip of a plant through the soil is due primarily to A) continuous cell division in the root cap at the tip of the root B) continuous cell division just behind the root cap in the center of the apical meristem C) elongation of cells behind the root apical meristem D) A and B only E) A, B, and C 接次

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-	12. Sugar synthesized in mature leaves moves from leaves into theofby	
	A) tracheid; phloem; active transport	
1	B) tracheid; xylem; diffusion	
1	C) sieve-tube member; phloem; active transport	
	D) sieve-tube member; xylem;active transport	
	E) sieve-tube; phloem; diffusion	
	13. In plant roots, the Casparian strip is correctly described by which of the following?	
1	A) It is located in the walls between endodermal cells and cortex cells.	
	B) It provides energy for the active transport of minerals into the stele from the cortex.	
	C) It ensures that all minerals are absorbed from the soil in equal amounts.	
	D) It ensures that all water and dissolved substances must pass through a cell before	
 	entering the stele.	
ı	E) It provides increased surface area for the absorption of mineral nutrients.	
	E) it provides increased surface area for the absorption of inflients numerits.	
	14 Dillows trongent is described as being for a superior to the Which of the City	
	14. Phloem transport is described as being from source to sink. Which of the following would	
	most accurately complete this statement about phloem transport as applied to most plants in	
	the late spring? Phloem transportsfrom thesource to thesink.	
	A) amino acids; root; mycorrhizae	
	B) sugars; leaf; apical meristem	
	C) nucleic acids; flower; root	
	D) proteins; root; leaf	
	E) sugars; stem; root	
•	15. Plant hormones can be characterized by all of the following except that they	
	A) may act by altering gene expression.	
	B) have a multiplicity of effects.	
	C) function independently of other hormones.	
	D) control plant growth and development.	
	E) affect division, elongation, and differentiation of cells.	
	16. In attempting to keep a seed staying dormancy, what kind of hormone you may apply to it;	
	Nevertheless, if you want the seed germinate, what you will use to treat the seed with.	
	A) IAA; Gibberellins(GA)  B) GAs; Abscisic acid	
	C) Abscisic acid; Cytokinins D) Abscisic acid; IAA	
	E) Abscisic acid; GAs.	Ì
	E) Austriau aulu, CAs.	
	17. Plant biotechnologists uses protoplast mainly to	}
	A) culture plant cells in vitro	
	B) asexually propagate desirable plant varieties	ŀ
	C) introduce bacterial genes into a plant genome	
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