科目:生物學(C)

題號:456

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題號:456

國立臺灣大學95學年度碩士班招生考試試題

科目:生物學(C)

題號:456

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14.	In plants,	necrosis	is the:
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- A) localized death of tissues.
- **D)** development of tumors.
- B) yellowing of leaves.

E) healing of wounds.

- C) loss of chlorophyll.
- 15. Which of the following indicates the correct sequence of tissues through which water moves from the soil into the root?
 - A) root hairs, endodermis, exodermis, cortical cells, vascular cylinder
 - B) root hairs, endodermis, cortical cells, vascular cylinder, exodermis
 - C) exodermis, endodermis, epidermis, vascular cylinder, cortical cells
 - D) epidermis, exodermis, cortical cells, endodermis, vascular cylinder
 - E) epidermis, endodermis, exodermis, cortical cells, vascular cylinder
- 16. Cytokinins are synthesized in ____ and transported from there to all other parts of the plant.
 - A) stems B) shoot apical meristems C) leaves D) roots E) fruits
- 17. In contrast to the starch-statolith and the plasmalemma central control hypotheses, the hydrostatic pressure hypothesis proposes that gravity is sensed by:
 - A) statoliths.
 - B) amyloplasts.
 - C) the pressure of the protoplast on the cell wall.
 - D) tension exerted on the plasma membrane by the cytoskeleton.
 - E) tension exerted on the plasma membrane by the protoplast.
- 18. In studies of leaf senescence, when an excised leaf containing radioactive amino acids is spotted with a kinetin-containing solution, the spot:
 - A) turns yellow and becomes nonradioactive.
 - B) turns yellow and becomes more radioactive.
 - C) remains green and becomes nonradioactive.
 - D) remains green and becomes more radioactive.
 - E) turns brown and becomes nonradioactive.
- 19. Which of the following statements about abscisic acid is FALSE?
 - A) It is a growth inhibitor.
 - B) It induces the closing of stomata
 - C) It prevents premature seed germination.
 - D) It inhibits the production of seed storage proteins.
 - E) It stimulates the yellowing of leaves.
- 20. Which of the following is characteristic of Photosystem I but NOT Photosystem II?
 - A) It contains chlorophylls but not carotenoids.
 - B) It can function only in association with the other photosystem.
 - C) It donates electrons to an electron transport chain.
 - D) It contains P₇₀₀ at the reaction center.
 - E) It splits water to release oxygen.

Part II. 選擇題 (單選; 40分) ※ 注意:請於試卷上「選擇題作答區」依序作答。

- 21. Blood samples taken from an individual who went on diet for 24 hours should have
 - (A) low levels of insulin
- (C) high levels of thyroxin
- (B) Low levels of glucagon
- (D) high levels of epinephrine
- 22. All of the following statements about hormones are correct except
 - (A) They are produced by endocrine glands.
 - (B) They travel to different areas of the body.
 - (C) They are transported by the circulatory system.
 - (D) They are used to communicate between different individuals.

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23. After sperm cells are produced, they are mainly stored in the						
(A) urethra.	(C) epididymis.					
(B) seminal vesicles.	(D) bulbourethral gland.					
24. Ovulation is triggered by						
(A) high levels of LH.	(C) low levels of LH.					
(B) high levels of estrogen.	(D) high levels of progesterone.					
25. The sodium-potassium pump of neurons	pumps					
(A) Na ⁺ and K ⁺ into the cell.						
(B) Na^+ and K^+ out of the cell.						
(C) Na ⁺ into the cell and K ⁺ out of the	cell.					
(D) Na ⁺ out of the cell and K ⁺ into the	cell.					
26. Which developmental sequence is correct	at?					
(A) cleavage, morula, blastula, and gas	trula					
(B) cleavage, gastrula, morula, and blas	stula					
(C) cleavage, blastula, gastrula, and mo	orula					
(D). morula, cleavage, gastrula, and bla	stula					
27. The threshold potential of a membrane	- The second second					
(A) is equal to about 35 mV.	TX.					
(B) closes K ⁺ channels to recover potential.						
(C) opens voltage-sensitive gates that results in the rapid outflow of Na ⁺						
(D) is the depolarization that is needed to generate an action potential.						
28. Which of the following RNA sequences is transcribed from						
5'-ATCCCCCATGTATCT-3'						
(A) TAGGGGGTACATAGA	(C) UAGGGGGUACAUAGA.					
(B) ATCCCCCATGTATCT (D) UACCCCCUACAUACA						
29. In a DNA sequence, the base-pairing analysis would show						
(A) A+T=G+C.	(C) A=G or T=C.					
(B) A+G=C+T.	(D) A/C=G/T					
3 0. Urea is produced in the	(2) (1)					
(A) liver from glycogen.	(C) kidney from glucose.					
(β) liver from NH ₃ and CO ₂ .	(D) kidney from glycerol and fatty acid.					
31. Which of the following structures does <u>not</u> belong to epithelial tissues?						
(A) stratified columnar.	(C) stratified squamous.					
(B) pseudostratified cuboidal.	(D) pseudostratified ciliated columnar.					
32. Which of the following tissues does no	_					
(A) lung.	(C) muscle.					
(B) kidney.	(D) intestine.					
33. Which of the following structures is th						
(A) nerve cells.	(c) connective tissue.					
(β) smooth muscle.	(D) endothelial cells.					
34. What are essential amino acids?						
(A) Those that are absent in fruits and vegetables.						
(B) The only amino acids found in human proteins.						
(C) The amino acids can not be synthesized by the most animals.						
(D) Those amino acids are more abundant in vegetables than in meat.						
接背面						

題號:456

國立臺灣大學95學年度碩士班招生考試試題

科目:生物學(C)

題號:456

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- 35. Which of the following vitamin is incorrectly associated with its function?
 - (A) Vitamin K production of RBCs.
 - (B) Vitamin C synthesis of connective tissue.
 - (C) Vitamin D calcium absorption and bone formation.
 - (D) Vitamin E protection of membrane phospholipid from oxidation.
- 36. Each cardiac cycle in human is
 - (A) 0.1 second.

(C) 0.3 second.

(B) 0.4 second.

- (D) 0.8 second.
- 37. Which of the following chambers or vessels carry oxygenated blood?
 - (A) left atrium, left ventricle, and aorta.
 - (B) right atrium, left ventricle, and vena cava.
 - (C) left atrium, left ventricle, and pulmonary artery.
 - (D) right atrium, right ventricle, and pulmonary vein.
- 38. A digestive enzyme, pepsinogen is secreted from the
 - (A) liver.

(C) stomach.

(B) large intestine.

- (D) small intestine.
- 39. Which of the following sequences is the correct pathway in mammalian circulation?
 - (A) right ventricle → aorta.
- (C) vena cava → right ventricle.
- (B) pulmonary vein \rightarrow left atrium.
- (D) left ventricle → pulmonary vein.
- 40. The structure between esophagus and stomach in human GI tract is
 - (A) rectum.

(C) duodenum.

(B) cardiac orifice.

(D) pyloric sphincter.

III. 問答題 (20 分)※ 注意:請於試卷上「非選擇題作答區」依序作答,並應註明作答之題號。

- 請畫出細胞週期(cell cycle)的4個主要時期,並標出G₀期。再依此區分胚 胎細胞、成人神經細胞及行減數分裂的卵細胞。
- 2. 請舉例說明外來種生物對原生種生物的影響。

試題隨卷繳回