臺北醫學大學 77十2學年度第 / 學期期中考試 命 題紙

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臺北醫學大學九十二學年度第 / 學期期中考試(試)題紙

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- 1. Which cell(s) is/are the first arrive at the site of injury?
 - (A) neutrophil (B) macrophage (C) fibroblast (D) myofibroblast.
- 2. The oxygen tension is higher in which layer of the wound-healing modulus during wound healing process?
 - (A) layer of macrophages (B) layer of neutrophils (C) layer of immature fibroblasts (D) layer of dividing fibroblasts.
- 3. The lactate concentration is less in which layer of the wound-healing modulus during wound healing process?
 - (A) layer of macrophages (B) layer of neutrophils (C) layer of immature fibroblasts (D) layer of dividing fibroblasts.
- 4. Which condition(s) will decrease the collagen formation during wound healing process?
 - (A) 5% of oxygen atmosphere tension (B) 95% of oxygen atmosphere tension
 - (C) pressure application during wound healing (D) all of above.
- 5. The major collagen(s) in the gingival tissue is/are
 - (A) I, II (B) II, III (C) I, III (D) III, V.
- 6. During the bone remodeling process, the osteoblast regulates the osteoclast via which mediators?
 - (A) PE2, cAMP (B) IL-6, calcitonin (C) osteopontin, osteonectin (D) TNF, osteocalcin.
- 7. Which of the following(s) is/are osteoclast precursor inhibitor?
 - (A) PTH (B) Calcitonin (C) Vit D3 (D) PGs
- 8. Which of the following factor(s) involve in the bone resorption of regional acceleratory phenomenon (RAP)?
 - (A) IL-1 (B) IL-3 (C) TNFs (D) All of above.
- 9. Which of the following hormones might have functional cross-reactivity with ADH due to the structure similarity?
 - (A) Oxytocin (B) Prolactin (C) LH (D) Aldosterone
- 10. Regarding the growth hormone, which of the following statements is incorrect?
 - (A) Receptor is located on the cell membrane (B) Secretion is in a pulsatile pattern (C) Exerts the insulin-like effect (D) Can increase protein synthesis
- 11. Which of the following hormones will have the biggest change in blood concentration after hypophysectomy
 - (A) LH (B) Prolactin (C) TSH (D) ACTH
- 12. Which of the following receptors contains DNA-binding domain
 - (A) ADH receptor (B) Insulin receptor (C) ACTH receptor
 - (D) Glucocorticoids receptor

臺北醫學大學25十二學年度第_/學期期中考試。命 題紙

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- 13. Which of the following hormones has less effect on the regulation of calcium homeostasis
 - (A) Parathyroid hormone (B)Thyroid hormone (C) Calcitonin
 - (D)Vitamin D
- 14. Which of the following hormones can directly control the intestinal calcium absorption?
 - (A) Parathyroid hormone (B) Calcitonin (C) Vitamin D (D) Thyroid
- 15. Regarding the central diabetes insipidus, which of the following statements is incorrect?
 - (A) Circulating levels of ADH are low (B) Large volumes of dilute urine
 - (C) A defect in the ADH receptor (D) Body fluids become concentrated
- 16. Which of the following treatments will **not** work for the Type II diabetes mellitus patient?
 - (A) Insulin administration(B) Weight reduction(C) Caloric restriction(D) If the above answers are all correct, then choice this answer
- 17. Which of the following hormones exerts a strongest anti-inflammatory and immunosuppression effect?
 - (A) Thyroid hormone (B) Somatostatin (C) Aldosterone (D) Glucocorticoids
- 18. Which of the following hormones can induce the synthesis of Calbindin D-28K, a cytosolic protein that can bind four Ca²⁺ ions?
 - (A) Glucagon (B) Vitamin D (C) Parathyroid hormone (D) Thyroid hormone
- 19. Calcium homeostasis is controlled by the interplay of the following organs except
 - (A) Bone (B) Intestine (C) Pancreas (D) Kidney
- 20. Beside the direct effect on target cells, some actions of growth hormone are mediated indirectly through the production of (A)
 - (A) Somatomedin (B) Somatostatin (C) GRH (D) Insulin
- 21. 女性黃體 (Corpus Luteum)的壽命約幾天?
 - (A) 5 (B)10 (C)14 (D)20
- 22. LH (黃體生成激素) surge 後約多少小時會排卵?

(A)6 (B)16 (C)26 (D)36

- 23. LH 主要作用在男性睪丸的何種細胞?
 - (A) Sertoli cells (B) Leydig cells (C) Granulose cells (D) Theca cells
- 24. LH (黃體生成激素)是由哪裡分泌而來?
 - (A) Hypothalamus (下視丘) (B) Pituitary (腦下垂體) (C) Ovary (卵巢) (D) Testis (睪丸)

臺北醫學大學力士-學年度第__/學期期中考試。命 題紙

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- 25. Which of the following is entirely under nervous control and has no hormonal regulatory component?
 - (A) salivary secretion. (B)gastric secretion. (C) pancreatic secretion. (D) liver secretion.
- 26. Which of the following factors will not influence the rate at which a meal will empty from the stomach?
 - (A) fat in the duodenum. (B) acid in the duodenum. (C) caffeine in the duodenum. (D) hypertonicity of the duodenal contents.
- 27. Which statement regarding gastric motility and emptying is incorrect?

 (A)increased fluidity allows more rapid emptying. (B) presence of acid and fat in the stomach initiates the enterogastric reflex. (C) increased gastric volume stimulates motility. (D) vagal activity stimulates motility.
- 28. Which of the following does not occur during vomiting?

 (A)the diaphragm contracts. (B)the abdominal muscles contract. (C)the stomach contracts. (D)respiration is inhibited..
- 29. Which does not enter the duodenal lumen?
 - (A)trypsinogen. (B)bile salts. (C)disaccharidases. (D)gastric contents.
- 30. Which of the following is absorbed receptor mediated endocytosis in the terminal ileum?
 - (A) fatty acids and monoglycerides. (B) bile. (C) vitamin B_{12} (D) amino acids.
- 31. Defecation in the human
 - (A) Is a purely voluntary act (B) Is involuntary except for the use of abdominal muscles (C) Can be inhibited by impulses from higher cortical centers
 - (D) Is involuntary except for the relaxation of the exiternal anal sphincter
- 32. The muscularis mucosae of the small intestine:
 - (A) Is stimulated by the parasympathetic nervous system (B) May produce movement of the villi (C) Is important in peristaltic activity (D) Is inhibited by sympathetic stimulation
- 33. Intestinal motility is increased by all of the following EXCEPT
 - (A) CCK (B) secretin (C) gastrin (D) motilin
- 34.Bile salts promote lipid absorption as a result of their ability to do all the following EXCEPT
 - (A) form micelles, or water-soluble complexes (B) reduce surface tension of fat particles (C) emulsify fat (D) stimulate reesterification in the mucosal cells

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臺北醫學大學/乙十二學年度第__/_學期期中考試。命,題紙

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- 43. Which one of the following statements regarding the State of Consciousness is CORRECT?
 - (A) EEG recording shows slow frequency wave when the subject is dreaming (B) EEG recording shows slow frequency wave when the subject is deeply anesthetized. (C) EEG recording shows slow frequency wave when the subject feels sleepy. (D) EEG records action potentials propagating along the cerebral cortex, which reflect the state of consciousness
- 44. Which one of the following statements is **Most Unlikely** appeared in the neurological test of a **Spinal Cord-Injured** patient?
 - (A) Not able to stand up (B) Appearance of Babinski's sign (C) Loss of knee ierk reflex (D) All of the above are likely to appear
- 45. Which chemical cannot directly activate C-fibers?
 - (A) K⁺ (B)Bradykinin (C) Substence P (D) Histamine
- 46. Choose the WRONG description about the gray matter of spinal cord structure:
 - (A) It can be divided into ten laminae according to the cells morphology and function. (B) The sensory neurons are mostly located at the dorsal portion.
 - (C) Most neurons in laminae I & II receive inputs from $A\alpha$ and $A\beta$ fibers.
 - (D) Most neurons in laminae III & IV respons to non-noxious mechanical stimulation.
- 47. Which description about peripheral sensory fibers is WRONG?
- (A) The terminals of a C-fibers have specialized organs to transform stimulation energy into action potential. (B) The conduction velocity of a C-fiber is less than 2m/sec which is the slowest among peripheral sensory fibers. (C) So far, Aα fibers are known to transform only mechanical stimulation into action potentials.
 - (D) C-fibers contain inflammatory chemical in vesicles at nerve terminal and play a critical role in the development of inflammation.
- 48. Which description about the first pain and the second pain is WRONG?
 - (A) The first pain is mediated via Aα fibers, while the second pain is mediated via C-fibers. (B) The first pain and second pain phenomenon is due to the difference in conduction velocity between A fibers and C- fibers. (C) Single-pulse electrical stimulation of A fibers can produce an inhibitory effect against inputs from C-fibers.
 - (D) The inhibition is produced by activation of inhibitory interneurons in the spinal cord.
- 49. About acute inflammation, which description is WRONG?
 - (A) Within 12 hours following a surgery, the inflammation is acute. (B) Ice packing is recommended for acute inflammation. (C) Inflammation lasting longer than 72 hours is defined as chronic and moist heat packing is always recommended for inflammation after 72 hours. (D) Any disturbance to the

臺北醫學大學/乙十二學年度第__/_學期期中考試。命題紙

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healing process can reverse the chronic inflammation into acute status again.

- 50. Which is **NOT** the possible mechanism underlying hyperalgesia following induction of inflammation?
 - (A) Sensitization of peripheral sensory nerve fibers.
 (B) Enlargement of the receptive field of peripheral sensory nerve fibers.
 (C) Activation of silent peripheral nerve fibers.
 (D) Sensitization of central sensory neurons by neurotransmitters.
- 51. Kidneys keep homeostasis within body through what mechanism?
 - (A) Filtration (B) Secretion (C) Reabsorption (D) All of above
- 52. What kind of measurement is used clinically to represent renal function of a patient?
 - (A) Transtubular potassium gradient (B) PHA clearance rate (C) Fractional excretion of bicarbonate (D) Glomerular filtration rate
- 53. A gentleman goes to hospital to test his renal function. Laboratory tests reveal serum sodium 140 meq/L, serum potassium 4.2 meq/L, serum creatinine 0.8 mg/dl, serum blood urea nitrogen 12 mg/dl, urine sodium 40 meq/L, urine potassium 8 meq/L, urine creatinine 72 mg/dl, urine blood urea nitrogen 42 mg/dl, 24 urine amount is 2000 ml/day. You can extimate his renal function from above data. Which is the best indicator of his renal function?
 - (A) Creatinine clearance 125 ml/min(B) Creatinine clearance 100 ml/min(C) Fractional excretion of sodium 0.4%(D) Renal blood flow 600 ml/min
- 54. The osmolarity of extracellular fluid and intracellular fluid determines the distribution of the body water. How can we know about the water in intracellular fluid is too much or too little? We can use which of the following measurement to get the answer indirectly.
 - (A) Serum calcium concentration (B) Serum magnesium concentration (C) Serum potasium concentration (D) Serum sodium concentration
- 55. For a dehydrated patient whose blood pressure decreased and heart rate rose. What in the following is the best fluid supply for this patient?
 - (A) Pure water (B) Fluid containing calcium (C) Fluid containing sodium(D) fluid containing glucose
- 56. Potassium is very important in maintaining the resting membrane potential.

 Which transport mechanism is the most important one to keep potassium within the cells?
 - (A) K⁺ channel (B) ATPase (C) Na⁺-K⁺-Cl⁻ co-transporter (D) Na⁺-K⁺ ATPase
- 57. To maintain a steady acid-base status, kidney has to reclaim almost all the bicarbonate within glomeruler filtrate. Bicarbonaate reabsorption occurs mainly

臺北醫學大學/乙十→學年度第__/_學期期中考試。命 題紙

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in which nephron segment?

- (A) Proximal tubule (B) Thin descending limb of loop of Henle (C) Thick ascending limb of loop Henle (D) cortical collecting tubule
- 58. To keep the body fluid as efficient as possible, mammals' kidney has to develop countercurrent mechanism and excret soncentrated urine. What is the primary active step in making concentrated urine?
 - (A) K⁺ channel in distal tubule (B) ATPase in proximal tubule (C) Na⁺-K⁺-Cl⁻ co-transporter in thick ascending limb of loop of Henle (D) Na⁺-K⁺ ATPase in collecting tubule
- 59. An old lady has diabetes and diabetic nephropathy. She has a consistent high level of serum potassium. The abnormality is due to inadequate excretion of potassium in collecting tubule. What is the hormone in problem?
 (A) Antidiuretic hormone (ADH) (B) Renin (C) Alsosterone (D) Angiotensin I
- 60. A young lady has a urine amount up to 10,000 ml a day. She was found to have a disease which has a defect in concentrating her urine. What is the defected hormone?
 - (A) Antidiuretic hormone (B) Atrial natriuretic peptide (C) Calcitriol (D) Prostaglandin