

私立臺北醫學院 90 學年度第 一 學期 期中 考試 (試) 題紙

系	級	科	目	授課教師	考	試	日	期	學	號	姓	名
醫	生	生	物	陳登世	91	年	1	月	17	日	第	節
※①請注意本試題共 <u>5</u> 張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。 ②每張試題卷務必填寫：學號、姓名、												

- Which is not a connective tissue? (a) adipose tissue. (b) blood (c) cartilage (d) bone (e) others
- A muscular ring regulates the passage of food out of stomach and into the small intestine named (a) esophageal sphincter (b) pyloric sphincter (c) stomach sphincter (d) digestive muscle (e) others
- Which is the opening of esophagus and trachea? (a) larynx (b) tongue (c) pharynx (d) epiglottis (e) others
- Which cells secrete pepsinogen in gastric glands? (a) chief cells (b) parietal cells (c) mucous cells (d) muscular glandular cells (e) others
- Pepsinogen is an inactive enzyme and will be activated initially by (a) HCl (b) pepsin (c) pepsinogen (d) mucous (e) others
- Which is a correct digestion sequence of a ruminant mammal? (a) rumen, reticulum, omasum, abomasum (b) rumen, omasum, reticulum, abomasum (c) omasum, reticulum, rumen, abomasum (d) omasum, rumen, reticulum, abomasum
- Which is not an essential amino acid? (a) Tryptophan (b) Methionine (c) Threonine (d) Lysine (d) Others
- Which is not mediated by countercurrent exchange? (a) Gas exchange in gills. (b) Gas exchange of a bird. (c) Tracheal system of insects. (d) Gases exchange in human fetus. (e) Thermal regulation in white shark.
- Why hyperventilation disrupts the control of breathing? (a) decreasing O₂ in blood (b) increasing CO₂ in blood (c) increasing O₂ in blood (d) decreasing CO₂ in blood (e) others
- Which factor causes the newborn to take its first breath? (a) CO₂ (b) O₂ (c) neurotransmitter (d) hormone (d) glucose
- Which blood vessel conveys O₂-poor blood? (a) aorta (b) pulmonary veins (c) pulmonary arteries (d) arteriole (e) others
- How long the atria are relaxed during a cardiac cycle of 0.8 sec. (a) 0.7 (b) 0.6 (c) 0.5 (d) 0.4 (e) others
- Which is a steroid hormone? (a) estrogens (b) calcitonin (c) luteinizing hormone (d) epinephrine (e) oxytocin

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第一系	生物學	陳彥壯	91年1月17日第 節		

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14. Blood clots plug formed when blood vessels are injured. Which is not correct in the blood clot formation. (a) platelets and plasma proteins are activated when injured. (b) clotting factors are released from platelets and conversion of thrombin to prothrombin. (c) conversion of fibrinogen to fibrin to trap blood cells and form a fibrin clot. (d) defects in clotting mechanism is life threatening. (e) others

15. Which artery is important for the occurrence of hear attack? (a) aorta (b) inferior vena cava (c) pulmonary artery (d) superior vena cava (e) coronary arteries

16. Contraction of precapillary sphincters make the blood flow to (a) arteries (b) vein (c) arterioles (d) venules (e) capillary bed

17. Which hormone is produced in the posterior pituitary? (a) oxytocin. (b) prolactin. (c) endorphins (d) TSH (e) ACTH

18. Which channel is opening in a resting neuron? (a) Na⁺ (b) K⁺ (c) Cl⁻ (d) Ca²⁺ (e) others

19. Why a brief overshoot appeared in the action potential? (a) K⁺ channels open slowly (b) K⁺ channels open quickly (c) Na⁺ channels close slowly (d) Na⁺ channels open quickly (e) others

20. Which is not the function of parasympathetic division in human? (a) constrict pupil (b) inhibit heart beating (c) stimulate erection (d) stimulate glucose release (e) stimulate urination

21. Which fiber connects the cerebral hemispheres? (a) corpus callosum (b) purkinje fiber (c) actin (d) myosin (e) others

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私立臺北醫學院 90 學年度第 一 學期 期中 考試 命題 紙

系級	科目	授課教師	考試日期	學號	姓名
醫學部	生物學	葉永祥	91年1月17日第 節		

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Choose the best answer (25%)

- () 1. An egg cell is ejected from the follicle in the process called
 1. spawning; 2. fertilization; 3. copulation; 4. ovulation.
- () 2. The term 'ectopic pregnancy' is described the embryo being implant out of the normal site of pregnancy, which site is the normal of pregnancy occurred?
 1. ovary; 2. oviduct; 3. uterus; 4. corpus luteum.
- () 3. In the male the _____ secrete a thick, clear fluid that lubricates and nourishes the sperms.
 1. prostate gland; 2. seminal vesicle; 3. Bartholin's gland; 4. Bulbourethral gland
- () 4. In the male, _____ promotes the secretion of androgens.
 1. follicle-stimulating hormone (FSH); 2. estrogens; 3. estradiol (E2);
 4. luteinizing hormone (LH)
- () 5. During the ovarian cycle, the peaks in follicle-stimulating hormone (FSH) and lutenizing hormone (LH) occur just after the _____ peak.
 1. progesterone (P4); 2. estradiol (E2); 3. androgen; 4. oxytocin
- () 6. The menstrual cycle id directly controlled by: A. estrogen; B. progesterone; C. androgens; D.prolactin
 1. AC; 2. AD; 3. AB; 4. BC.
- () 7. In the female, _____ triggers an egg cell ejected from the follicle.
 1. follicle-stimulating hormone (FSH); 2. lutenizing hormone;
 3. progesterone; 4. prostaglandins
- () 8. Early in the pregnancy, the developing embryo implanted in the endometrium of womb, release human chorionic gonadotropin (HCG) that acts like _____, that maintains the corpus luteum.
 1. follicle-stimulating hormone (FSH); 2. lutenizing hormone (LH);
 3. estrogens; 4. progesterone
- () 9. RU 486 is a birth control chemical, actually it is an anti-hormone against the function of
 1. follicle-stimulating hormone (FSH); 2. lutenizing hormone;
 3. progesterone; 4. prostaglandins.
- () 10. "The pill", combined of synthetic estrogen and progestin mainly, prevents _____ and keeps follicle from developing.
 1. spermatogenesis; 2. oogenesis; 3. ovulation; 4. ejaculation
- () 11. The first two major phases of embryonic development are: A.gastrulation; B.cleavage; C.organ formation; D.pattern formation
 1. AB; 2. BC; 3. AC; 4. CD.
- () 12. In the four structures of extraembryonic membranes, _____ is developed as an extension of the yolk sac.
 1. amnion; 2. chorion; 3. umbilical cord; 4.allantois
- () 13. _____ is secreted by the developing embryo, so we test this hormone in a woman's urine or blood work as an early test of pregnancy. 1. prolactin; 2. oxytocin; 3. HCG; 4. estrogen

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第一	生物學	吳永森	91年1月17日第 節		

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- ()14. During the last weeks of pregnancy, which hormone reaches its highest level in the mother's blood? and this hormone is to trigger the formation of oxytocin receptors on the womb.
 1. progesterone; 2. estrogens; 3. follicle-stimulating hormone (FSH);
 4. lutenizing hormone (LH)).
- ()15. The hormone induction of labo involves positive-feedback control, oxytocin and prostaglandins cause womb contraction that in turn stimulate the release of more and more
 1. prolactin and prostaglandins; 2. prolaction and oxytocin;
 3. prostaglandin and oxytocin; 4. estrogens and progesterone.
- ()16. What embryonic stage is common to the development of all animals?
 1. blastula; 2. gastrulation; 3. organ formation; 4. pattern formation.
- ()17. A woman had several miscarriages. Her doctor suspected that a hormonal insufficiency was causing the lining of the uteus to break down terminating her pregnancies. Treatments with which of the following might help her remain pregnant?
 1. RU-486; 2. progesterone; 3. lurenizing hormone (LH);
 4. follicle-stimulating hormone (FSH)).
- ()18. _____ is central to what Darwin saw as the basic mechanism of evolution, the process he called natural selection. 1. Reproduction; 2. Natural selection; 3. Change; 4. Chance
- ()19. Microevolution is a change in the frequency of _____ in a population's gene pool.
 1. species; 2. alleles; 3. diversity; 4. phenotype
- ()20. The study of _____ provides a strong evidence for evolution.
 1. biogeography; 2. fossils; 3. comparative anatomy; 4. comparative embryology
- ()21. Two organisms in the same order must also be grouped in the same
 1. class; 2. family; 3. species; 4. genus.
- ()22. As different as archaea and bacteria are not included
 1. rRNA sequences; 2. introns; 3. membrane lipids;
 4. lack nuclei and other membrane-bounded organelles.
- ()23. Which of following most reduces the chances of both conception and the spread of sexually transmissible diseases? 1. The pills; 2. condom; 3. intrauterine devices; 4. RU-486.
- ()24. The mechanic of fertilization play an important part in _____ reproduction.
 1. asexual; 2. sexual; 3. budding; 4. fission
- ()25. The term of _____ is used for the stage in development from the nine week until birth.
 1. embryo; 2. fetus; 3. infant; 4. baby

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系級	科目	授課教師	考試日期	學號	姓名
第一系	生物學	韓柏樺	91年1月17日第 節		

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解釋名詞

1. Biosphere
2. Habitat
3. Density-independent Factor
4. Age-structure Diagram
5. Gause's Competitive Exclusion Principle
6. Camouflage
7. Mutualism
8. Associative Learning
9. Dominance Hierarchy
10. Courtship Rituals