私立臺北醫學院_89 學年度第_/學期期末考試命題紙

| | | | | | | | | _ ` | | • • | | • | · · · · · · · · · · · · · · · · · · · | 末、 | '(7 | 試) | • | |
|---|----------|-----|----------------------------------------------|------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------|---------------------------------|-----------------------------------|--------------------------------|-------------------------|-------------------------|---------------------------------------|-------------------------|------------|---------|-----|-----|
| 系 | 級 | 科 | | | 8 | 投課者 | 交師 | 考 | 拭 | E | | 期 | 學 | | | 號 | 姓 | |
| 7 | - | * | | 40 | 7 | 楊良 | 友 | 90 # | | 18 | 日第_ | 2 1 | ř | 14 | 6/2 | | | |
| * | ①請 ②毎 | 注意 | 本試題 題卷務 | 共 | <i>€</i> 張 (■ 張 | · 如發現〕)、(姓名 | 頁數不 | 足及笠 | 2白頁或 | 战缺印 | ・應る | 當場請 | 求補齊 | 7. 香煎 | 缺少那么 | 概以 | 零分計 | 0 |
| | | | · · · · · · · · · · · · · · · · · · · | | <u>.</u> | tg4kar, ruse | | | | | •••• | | ••• | | TO TO | | | |
| | | | | | | | | | | | | | | | . Y |) ¥ | 1 | 100 |
| | | | Genera Studen | | ogy nd Nan | Final E | xam Ja | nuary | 2001 - | | | uctor: | | Yo Yang | Der | ntistry | , | |
| | | | Please | choose | only O | NE BEST | answe | r. 45 c | question | s for th | is par | t and 2 | points | for each | question. | | | |
| | | | 1. In an | imal k | ingdom | , there are | (A) 1 (| B) 2 (C | C) 3 (D) | 4 (E) 5 | type | s of sk | eletal sy | stems. | | | | |
| | | | 2. Whice echinoc | ch of the lerms (| ne follov (E) none | wing animate of the abo | als have | endos | keleton | ? (A) e | arthw | orm (I | 3) Jellyf | ish (C) in | nsects (D) |) | | |
| | | | Bone is | the bu | iilding n | ving staten naterial of ytes secret | the ver | tebrate | skeleto | n. (C) I | Haver | sian sy | stem is | the basic | unit of h | one | | |
| | | | 4. Muso isovolu | ele con mic (E | traction O) isosm | that result notic (E) is | ts in mu someric | scle sh | ortening ontraction | | ed (A |) isom | etric (B | 3) isotoni | c (C) | | | |
| • | | | (A) My (B) My (C) My | ofilam ofilam ofilam ofilam | ent → N ent → N ent → M ent → N | organization Auscle fasc Auscle fibe Ayofibril — Ayofibril — | cicle → er → M → Musc | Myofi yofibril le fasci | bril → Mu: l → Mu: icle → M | Muscle scle fas Muscle : | fiber cicle fiber | → Ske → Ske → Ske | letal mu letal mu letal mu | iscle iscle iscle | argest? | | | |
| | | | (A) Saro (B) The (C) The (D) H ba | thick thin mands ands ands | is the s myofilan yofilam re locate | ving statem mallest su ments are s tents alone ed at the ce he above. | bunit of stacked form A | f muscl togethe A bands | le contra er to pro s. | ction. | | | RECT | ? | | | | |
| | | | (A) Thic (B) Eacl | ck filar h myos n filam of the | nents ar sin mole ents are above | ring statem e compose cule has the composed | ed of glo bree pol | obular a ypeptid | actin pro | oteins. | от (| CORR | ECT? | | | | | |
| | · | . (| (A) Rele (B) Shif (C) Form (D) Form | ease of taway nation nation | potassing of trope of cross of cross | ing events um from sa onin and tr s-bridge be s-bridge be the above | arcopla: ropomy etween a | smic re osin co actin ar | ticulum mplex f nd tropo | rom atta | achm | | | | | | | |
| | | (| (A) Fast (B) Fast (C) Slov (D) Slov | -twitch -twitch v-twitc v-twitc | i fibers a fibers a h muscl h fibers | ing statem are fast gly are also cal e fibers ha are also ca he above | colytic lled typ ve num | and far e II fib- erous r | tigue res ers. mitochos | sistant. | ers is | NOT | CORRI | ECT? | | | | |
| | | 1 | 0. The period | neuroti ine (E | ransmitt)) norep | er released inephrine (| into th | e neuro otonin | omuscul | ar junc | tion is | s (A) d | opamin | e (B) acc | etylcholin | ne (C) | | |
| | ·· | | | | | | ——— 第 | (| 1. 3 | | İ |) | 百 | | | | | |

私立臺北醫學院_89 學年度第_/學期期末考試命題紙

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| ĸ | 級 | 科 | | 且 | 授課教師 | 考 | 试 | E | 期 | 學。人 | | 號 | 姓 |
| 9 | - | 妆 | 差 | | 榜品友 | 年_ | 月 | 日第 | 節 | 1/1/2 | MA | .1 | |
| *(| D請: | 注意本 | 大腿規 | 人 强 第一级 | 。如發現頁數7)、(姓名)。 | 足及空 | 白頁或缸 | 決印・應當 | 含場請 🤇 | ₹補齊\' 2 | 利缺少新 | 份概1 | / 以零/分計 |
| | WFG: | JIR BUL RE | 8 TE 139 W 4 | 杨(字页 | <u>)、(姓名)。</u> | | | | | | ~~ ~ | 77 | 7,17 |
| | | | | | * - | | | | | | | 7 | The M |
| | | | General B | | Final Exam | January | 2001 | | | Liang-Yo Y | /ang | Dentis | try |
| | | | Student II | D and Na | me | | - | Date | | | | | |
| | | | | | lowing statemen | | nuscle ty | es is corre | ect? | | | | |
| | | | | | is striated muscle | | | | | | | | |
| | | | | | s striated muscle contracts by a sli | | ment med | hanism | | | | | |
| | | | (D) Smoot | h muscle l | has myosin and a | ectin filar | ments. | mannonn. | | | | | |
| | | | | | f the above. | | | | | | | | |
| | | | 12. Which | of the foll | owing statemen | s about o | ardiac m | uscle is NC | т соғ | RRECT? | | | |
| | | | (A) Cardia | c muscle i | s composed of s | hort and | branched | | | | | | |
| | | | | | scle cell has one | or two n | uclei. | | | | | | |
| | | | | | o myocardia. discs are referre | d to the f | ised men | hranas hat | waan tu | vo anrdina | oolla and ac | | |
| | | | junctions. | creatateu | discs are referre | u to the i | uscu men | ibialies bei | .ween tv | vo cardiac | Jens and co | main g | зар |
| | | | | han one of | f the above. | | | | | | | | |
| | | | 13. Which | of the foll | owing statement | s is corre | ect? | | | | | | |
|) | | (| (A) Moton | eurons and | d association neu | ırons (int | erneurons | s) possess a | profus | ion of high | ly branched | i | |
| | | | dendrites. | | | | | | | | • | | |
| | | | | | vous system, olig s system, Schwa | | | | | | | | ns. |
| | | | | | s form the gray | | produce i | nycini to w | rap aro | und the axe | nis of ficult | JIIS. | |
| | | | | | the above. | | | | | | | | |
| | | 1 | 14. Which | of the foll | owing statement | s about s | odium-po | tassium pu | ımp is c | orrect? | | | |
| | | | | | ssium pumps pu | mp out 2 | sodium i | ons for eve | ry 3 po | tassium ior | s that they | pump | |
| | | | into the cel | | ! ! | : | | | | | | | |
| | | | | | ssium pump is a ssium pump requ | | | work | | ٠. | | | |
| | | | | | ssium pumps co | | | | ane note | ential | | | |
| | | | | | the above. | | | | and poor | | | | |
| | | 1 | 15. Which | of the foll | owing factors co | ntributes | to the me | embrane po | tential? | • | | | |
| | | | | | e sodium-potass | | | | | | | | |
| · | | | | | rees of permeab | | | | | | | | • |
| | | | (C) The pre to leave the | | ixed anions-prof | eins and | organic p | hosphates | that are | negatively | charged an | ıd unab | ole |
| | | | (D) All of t | | • | | | | | • | | | |
| | | | (E) Two of | | | | | | | | | | |
| | | 1 | 16. Which | of the foll | owing statement | s about a | ction pote | ential is cor | rect? | | | | |
| | | | | | follow an all-or | | | | | | | | |
| | | | | | can add togethe | | | one anothe | r. | | | | |
| | | | | | potential, the vo | | | | | | | | |
| | | | | | f an action poter | itial requ | ires the a | ctive transp | ort of i | ons. | | | |
| | | • | (E) More th | ian one of | the above. | | | | | | | | |
| | | i | 17. Which | of the foll | owing statement | s about i | on concer | trations in | a cell is | correct? | | | |
| | | (| (A) The cor | ncentratio | n of sodium ions | is highe | r in the ex | tracellular | fluid th | an in the c | | | |
| | | | | | n of sodium ions | | | | | | | | |
| | | - 1 | L 3 I he cot | ncentratio | n of notassium id | me ie bia | ner in the | evirocellu | iar thiid | i than in the | * cutonlocm | • | |

(D) The concentration of chloride ions is higher in the cytoplasm than in the extracellular fluid.

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(E) More than one of the above.

私立臺北醫學院_89_學年度第__/學期期中考試命題紙

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| 7 | - | 黄生 | | | ——年 | | 日第_ | | 1 1 1 | Mo 1 st | |
| ※ (| ①請 ②每 | 注意本試題共_ 張試題卷務必切 | <u>ん</u> 張 | 。如發現頁)、(姓名) | 數不足及空 | 白頁或鈕 | 決印・應省 | 當場請求 | 求補齊八否則 | 缺少部份概 | 以零分割 |
| | | | 4 3/00 (-3- 30/0 | <u>/ /×+-11/</u> | . * | · · · · · · · · · · · · · · · · · · · | | | | 1 W | ¥ ./5. |
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| • | | General Student 1 | Biology ID and Na | Final E | xam Januai | ry 2001 — | | | : Liang-Yo Ya | ng Den | itistry |
| | | 18. Which central ne | h of the fo rvous syst | llowing cher tem? (A) Gl | nical messer ycine (B) G | ngers is th ABA (C) | e major ex Acetylcho | citatory line (D | neurotransmi Glutamate (I | tter in vertebr ᢃ) Serotonin | ate |
| | | 19. Whicl (A) Glyci | h amino ao ne (B) Tr | oid is the pre yptophan (C | cursor of ep C) Leucine (| inephrine, D) Tyrosi | norepinep ne (E) Val | hrine, a line | and dopamine? | | |
| | | 20. Which (A) Acety | n of the fol vicholine (| llowing neur (B) Dopamir | otransmitter ne (C) Serot | deficienc conin (D) | y is related Nitric oxid | d with d de (E) I | lepression? Epinephrine | | |
| | | 21. Which (A) Acety | of the folloched | llowing neur (B) Dopamir | otransmitter ne (C) Serot | deficienc onin (D) | y is related Nitric oxid | d with P le (E) I | arkinson's dis Epinephrine | ease? | |
| | | 22. The in (D) Magn | nhibitory n esium (E) | eurotransmi) Hydroxide | tters usually ion channe | open (A) I. | Chloride | (B) Sod | lium (C) Calci | um | |
| • | | 23. Which (A) Substa | of the fol ance P (B | lowing neur) Enkephalir | otransmitter ns (C) Endo | s is relate rphins (D | d to percep) All of the | otion or e above | inhibition of p (E) Two of th | ain? e above. | |
| | | 24. In ma (E) None | mmals, the | e telencepha ve. | lon is (A) ce | erebellum | (B) cereb | rum (C |) thalamus (D |) hypothalam | us |
| | . : | 25. Hormo glycoprote | ones can beins (C) A | e divided int mines (D) | to four categ Steroids (E) | ories. Th None of | yroxine is the above. | in the c | ategory of (A) | polypeptides | (B) |
| | | 26. In hum cortex (B) | nans, whic primary s | h cortex mai somatosenso | kes up 95% ory cortex (C | of the sur C) associa | face of the tion cortex | cerebra (D) au | ll cortex? (A) | primary moto (E) visual cor | r rtex |
| | | 27. In USA (B) melato | A, Prozaci onin (C) d | is a very por opamine (D | oular prescri _l) acetylchol | ption for a | lepression ubstance P | | e it can elimina m synaptic clef | | nin |
| | | acetylchol | ine (C) do | pel prize in moppamine (D) that promo | serotonin (| (E) epinep | hrine. Thi | discoves neuro | ered (A) nitric transmitter is t | oxide (B) he major | |
| | | 29. In auto neurons. | nomic ner | vous system | , the efferen | t motor p | athway inv | olves (A | A) 1 (B) 2 (C |) 3 (D) 4 (5) | ı |
| . | | 30. What i | s the neuro choline (C | otransmitter () norepinepl | released by hrine (D) ser | the sympa rotonin (F | nthetic post E) none of | ganglio | onic neuron? (a | A) dopamine | |
| | | 31. Sympa muscle cor | thetic stim ntraction o | nulation will f urinary bla | cause (A) s dder (D) d | weating (ecreased l | (B) increas neart rate (| ed moti (E) mor | ility of gastroir e than one of t | itestinal wall he above. | (C) |
| | | 32. Which (D) Humid | of the foll lity (E) no | owing stimune of the abo | ili stimulates | s mechano | receptors? | (A) So | ound (B) Taste | (C) Smell | |
| | | 33. Which (D) prolact | of the foll in (E) two | owing horm o of the abov | ones is NOT | Γ lipophili | ic? (A) est | radiol | (B) progestero | ne (C) cortise | ol |
| | | 34. Which (B) proprie | of the foll oceptors (| owing recep C) taste bud | tors belongs (D) photor | to mecha receptors | noreceptor (E) two of | rs? (A) the abo | baroreceptors | | |

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私立臺北醫學院_89 學年度第_/_學期期末考試。命題紙

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| 9 | - | 慈 | ¥ | | | | | | 月 | 日第_ | | | | | |
| *(| D請 ②每 | 注意本 張試題 | 就題共_ 基卷務必填 | 6 張。 【寫(學號 | 如) 、 (| 建 | 頁數: 名)。 | 不足及空 | 白頁或由 | 決印・應望 | 當場請求 | 找補齊 人 | ・否則缺少部份概. / | 以零分計。 | |

General Biology Final Exam January 2001 Instructor: Liang-Yo Yang Dentistry Student ID and Name ______ Date

- 36. Which of the following brain regions is sensitive to the pH of cerebrospinal fluid?
- (A) thalamus (B) hypothalamus (C) medulla oblongata (D) pons (E) none of the above
- 37. Which of the following apparatus is more sensitive to horizontal acceleration?
- (A) semicircular canals (B) utricle (C) saccule (D) cochlea (E) none of the above
- 38. In the middle ear, there are three small bones that are important in processing sound waves. They **DO NOT** include (A) the malleus (B) the incus (C) the stapes (D) radius (E) two of the above.

35. The blood pressure is detected by (A) baroreceptors (B) proprioceptors (C) Pacinian corpuscles (D)

- 39. Some animals emit sounds and then determine the time it takes these sounds to reach an object and return to the animals. This process is called (A) locomotion (B) echolocation (C) vibration (D) localization (E) none of the above.
- 40. Which of the following animals **DO NOT** have image-forming eyes? (A) mollusks (B) arthropods (C) annelids (D) vertebrates (E) none of the above.
- 41. Contraction of ciliary muscle will (A) cause the lens to become more rounded and powerful (B) cause the lens to become more flattened and less powerful (C) decrease the size of the pupil (D) not affect the shape of the lens (E) none of the above.
- 42. Which of the following statements is correct?

Meissner's corpuscles (E) two of the above.

- (A) Rods are responsible for black and white vision.
- (B) Cones are responsible for black and white vision.
- (C) Rhodopsin is the photopigment in cones.
- (D) Photopsin is the photopigment in rods.
- (E) none of the above.
- 43. The order of light reaching the cells of the retina is (A) ganglion cell → bipolar cell → photoreceptors (B) ganglion cell → photoreceptor → bipolar cell (C) photoreceptor → ganglion cell → bipolar cell (E) bipolar cell → ganglion cell → photoreceptor → cell (E) bipolar cell → ganglion cell → photoreceptor
- 44. In the endocrine system, what organ functions exclusively as an endocrine gland? (A) the pineal gland (B) the pituitary gland (C) the pancreas (D) the ovaries (E) two of the above.
- 45. Melatonin is secreted by (A) the pineal gland (B) the pituitary gland (C) the pancreas (D) the ovaries (E) two of the above.

私立臺北醫學院八十九學年度第一一學期期中考試命題紙

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| | | | | | | | | land varior p | er visit i | | | | | | Ä | 74 | R TOP | | . 10 | |
| | | | | 14. | Spe | cies ri | iches | on isl | ands | is a dyr | namic | equilibr | ium 1 | between | coloniza | tion | 3 TA | 19 | The same | |
| | | | | | and | (1) | extin | ct (2 |) pr | edation | (3) | competi | tion | (4) ha | bitat | | () | Ť | 100 | THE LET |
| | | | | 15. | The | speci | es ric | hness | of a | n island | is inv | ersely c | orrel | ated wit | th (1) is | land | | | | • |
| | | | | | size | (2) | prod | luctivi | ty of | plant (3 | 3) dista | ance fro | m th | e mainla | and (4) | plant | | | | |
| | | | | | stru | cture | comp | lexity | · | | | | | | | | () | | | |
| | | | | 16. | Exc | otic sp | ecies | often | caus | e great | damag | ge to loc | al en | vironme | ent due to | the | | | | |
| | | | | | lack | c of th | eir (| 1) ha | bitat | (2) p | rey (| 3) nich | e (4 |) preda | tor | ••••• | () | | | |
| | | | | 17. | To | manag | ge the | wildl | ife a | t wetlan | d such | h as Taip | ei N | ature Pa | ırk at Kw | antu, | | | | |
| | | | | | the | kno | wled | ge o | f. (| 1) fish | (2) | predatio | n (3 | 3) succe | ession (4 | 1) | | | | |
| | | | | | co | mpeti | tion | is th | e mo | st impo | rtant ti | hat we s | houl | d know | | | () | | | |
| | | | | 18. | On | e of th | e mo | st seri | ous a | a enviro | nment | t probler | ns is | the loss | of (1) | | | | | |
| | | | | , | bio | divers | ity (| 2) de | er (| 3) fish | (4) |) pine (| ree. | | • • • • • • • • • • • • | | () | | | |
| | | | | 19. | E. 0 | O. Wi | lson l | nas cal | lcula | ted that | as mu | ich as (| 1)1 | % (2) | 50% (3 | 3)5% | | | | |
| | | | | | (4) | 25% | of th | e wor | ld's s | pecies i | may b | e lost du | ring | the next | t 50 years | 3 | .() | | | |
| • | | | | 20. | The | ere is | an int | tensive | e inv | estigatio | on of | (1) so | oil (| 2) orga | nisms (3 | 3) | | | | |
| _ | | | | | oil | (4) | water | for n | ew d | rugs to | fight c | ancer a | nd ot | her dise | ases, or a | s | | | | |
| | | | | | sou | irces a | ntibi | otics | | | | | | | | | () | | | |
| | | | | 21. | The | e spec | ific r | ole a s | peci | es plays | in its | environ | ment | t is calle | dits (1) | niche | | | | |
| | | | | | (2 |) fund | ction | (3)1 | biodi | versity | (4) s | successi | on | | | • • • • • • • • • • • • • • • • • • • • | . () | | | |
| | | | | 22. | Th | e relat | ionsl | nip be | wee | n cattle | egrets | and an | Afri | can cap | e buffalo | is called | 1() | | | |
| | | | | | pre | dation | n (2) |) com | muna | alism (| 3) coi | mpetitio | n (4 | l) paras | itism | | .() | | | |
| | | | | 23. | Th | e keys | tone | specie | s of | African | grass | land (S | Sava | nna) to | maintain | the | | | | |
| | | | | | gra | ss cor | nmui | nity is | the | (1) bir | d(2) | lion (3 | 3) pı | rimate (| 4) eleph | nant | . () | | | |
| | | | | 24. | Ca | tches | of the | Peru | vian | anchovy | y fishe | ry fell r | apidl | ly after t | he 1972 | is due | | | | |
| | | | | | to t | lie ch | ange | of ten | pera | ture and | d (1) | predati | on b | y bird (| 2) | | | | | |
| | | | | | ove | erharv | estin | g by h | uma | n (3) l | ow de | nsity of | prey | (4) hi | gh salinit | y | . () | | | |
| | | | | 25. | | | | | | | | | | | of freshw | | | | | |
| | | | | | fisl | h spec | ies ex | ktinct | in th | e last fif | fty yea | ırs in Ta | iwan | 1 | | •••• | .(). | | | |
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私立臺北醫學院八十七學年度第一一學期期中考試命期末(試)題紙

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| | | | 6. | Which o | of the | follow | ing fa | ctors is c | of crucial | importa | ance in limi | ting | | | | |
| | | | | populati | ion siz | es in r | ature | (1) foo | od (2) s | helter (| (3) predate | or-prey | | | | |
| | | | | relation | ships | (4) n | nortali | ty | • • • • • • • • • • • • • • • • • • • • | | | | () | | | |
| | | | 7. | If we w | ish to | preser | ve nati | ural ecos | systems, v | we shou | ld do all we | e can to | | | | |
| | | | | preserve | e their | (1) | biolog | ical dive | ersity (2 |) clima | te (3) bea | ır | | | | |
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