

**English Test for Entrance Examination of Postgraduate Institute:(2 points for each question)**

**I. Please choose the fittest answer to complete the sentence in each question.**

- \_\_\_1. The student raced out of the classroom and bumped \_\_\_ a teacher who was carrying a cup of coffee.  
(A) into (B) at (C) to (D) on
- \_\_\_2. Ann says the party will be \_\_\_\_, so I suggest you wear a nice dress.  
(A) familiar (B) formal (C) fluent (D) funny
- \_\_\_3. Nancy gained four kilograms during the holidays, so she decided to go \_\_\_ a diet.  
(A) on (B) to (C) in (D) up
- \_\_\_4. Don't follow that car too \_\_\_\_. If it stops quickly, there could be an accident.  
(A) directly (B) exactly (C) nearly (D) closely
- \_\_\_5. After we ate the fried chicken, our fingers were oily, so we asked the waitress for more  
(A) napkins (B) packages (C) orders (D) menus
- \_\_\_6. The sea \_\_\_ seventy-five percent of the surface of our world.  
(A) making up (B) makes up (C) make up what is (D) which makes up
- \_\_\_7. A laser beam \_\_\_ a concentration of pure light.  
(A) consists of (B) which consists of (C) exhibiting (D) exhibit
- \_\_\_8. The universe \_\_\_ we know it might have begun with a great explosion.  
(A) as (B) that (C) and which (D) and
- \_\_\_9. The bus was full, but Judy saw an empty seat next to an old woman. "\_\_\_ I sit here?" she asked her.  
(A) Should (B) Would (C) May (D) Will
- \_\_\_10. Mr. Li teaches mathematics at a public high school in Kaohsiung. He \_\_\_ there since 1995.  
(A) is (B) was (C) will be (D) has been
- \_\_\_11. Being a newcomer, Alice is \_\_\_ with the area.  
(A) informative (B) unfamiliar (C) aware (D) confident
- \_\_\_12. Cars and motorcycles are \_\_\_ in this area; people can only walk around here.  
(A) permitted (B) promoted (C) banned (D) favored
- \_\_\_13. From the window, we got a(n) \_\_\_ view of the mountains.  
(A) breathtaking (B) chilly (C) excited (D) moral
- \_\_\_14. Despite losing the use of his legs and some use of his arms, the \_\_\_ boy managed to ski with the help of a special device.  
(A) shy (B) scared (C) disabled (D) elegant
- \_\_\_15. Jeff's English had improved so \_\_\_ that everyone was surprised.  
(A) gradually (B) critically (C) bitterly (D) dramatically
- \_\_\_16. The violent storm almost destroyed the area. People living there really \_\_\_ an ordeal.  
(A) scored (B) dragged (C) resisted (D) underwent
- \_\_\_17. \_\_\_ computer use may not cause wrist injuries, it can still give you a headache or make your eyes dry.  
(A) Once (B) When (C) While (D) Despite
- \_\_\_18. \_\_\_ he restrained himself from blurting out those hurtful words, his girlfriend would not have left.  
(A) Because (B) Had (C) Should (D) When
- \_\_\_19. Einstein was Jewish, and in 1933 the Nazi government \_\_\_ his property and German citizenship.  
(A) taken away (B) took away (C) has taken away (D) was taken away

20. The trash can, \_\_\_ with rejected term paper, sat in the corner of the dorm room.  
(A) fill (B) to fill (C) filling (D) filled
21. Sleep and exercise are \_\_\_ health.  
(A) in essence (B) essentially (C) essential to (D) essential for
22. He not only read the copy, but \_\_\_ on it.  
(A) reported (B) apologized (C) regretted (D) commented
23. Mr. Anderson says that in many ways he \_\_\_ his success to his wife's support.  
(A) owes (B) distributes (C) deceives (D) betrays
24. The spread of knowledge could be \_\_\_ by means of books.  
(A) accomplished (B) defined (C) claimed (D) exported
25. If you abide by your promise, you will keep your promise \_\_\_\_\_.  
(A) temporarily (B) periodically (C) permanently (D) unwillingly

**II. Please choose the item that interprets best the sentence in each question.**

26. Education has its fashion, and like all other fashions they come and go. This means that  
(A) Education should make us fashionable  
(B) Education is sometimes popular, sometimes unpopular  
(C) Students study and leave school after some time  
(D) Ideas on education change all the time
27. He isn't above lying when it suits his needs.  
(A) He will lie when he feels it's necessary.  
(B) He knows it is always necessary to tell the truth.  
(C) He never lies even when it would benefit him to do so  
(D) He usually lies down when he needs to rest.
28. People's interest in their health and their demand for various forms of medical care have enormously increased.  
(A) People are taking more interest in their health than in medical care.  
(B) People are taking more interest in their health but demanding less medical care.  
(C) People are taking more interest in their health and demanding much more medical care.  
(D) Medical care, drugs and hospital care grow more and more costly.
29. Primitive man was probably more concerned with fire as a source of warmth and as a means of cooking food than as a source of light.  
(A) In the ancient times fire was used for getting warmth and cooking food rather than for getting light.  
(B) Primitive man had nothing to do with light.  
(C) In the ancient times the main use of fire was not for getting warmth and cooking food but for getting light.  
(D) Primitive man regarded fire as the chief source of light.
30. A bookstore is the last place in the world I expect to meet you.  
(A) I finally find you in a bookstore.  
(B) If I want to meet you, I should go to a bookstore.  
(C) I met you in a bookstore last time.  
(D) It is impossible for us to meet in a bookstore.
31. Mr. Braun is a friend of mine whose profession is to advise or represent others in legal matters. Mr. Braun is  
(A) a judge (B) a lawyer (C) a policeman (D) a guide
32. For the American masses their civilization is a canned food civilization, so that the house wives, instead of being pressed by domestic chores, have plenty of time for reading and social activities, but on the other hand, people must be content with uniform and unpalatable dishes.  
(A) It seems that American housewives are pressed by the jobs of cooking and washing dishes, etc.  
(B) American housewives scarcely spend time visiting old friends or doing a lot of reading.  
(C) American housewives enjoy ready-made food very much.  
(D) It seems that Americans can't enjoy delicious food.

33. A general feature of modern society is the gap that separates the adult from the young, and it is most painfully felt between parents and children. In this paragraph, we are talking about the gap between \_\_\_\_.
- (A) families (B) society (C) parents (D) generations
34. One should read the classics in winter, because then one's mind is more concentrated; read history in summer, because one has more time; read ancient philosophers in autumn, because they have such charming ideas; and read the collected works of later authors in spring, because the Nature is coming back to life. What kind of reading requires most concentration?
- (A) History (B) Modern writing. (C) The classics. (D) Philosophy.
35. It may be said that the problem in adult education seems to be not the piling up of facts but practice in thinking.
- (A) Education methods for adults and young people should differ.  
(B) Adults do not seem to retain new facts.  
(C) Adults seem to think more than young people  
(D) Adult education should stress ability to think.

### III. Please choose the most proper item for each blank in the essays.

#### ESSAY 1

Jane lived near the sea, and she often went down to the beach to sit on the sand. Being by the sea was like being in a different 36. In front of her was the deep blue water; it slowly moved 37 her and then moved away again. Sometimes it came up very quickly and then her feet were covered by the salty water. 38 her, soft white clouds continually floated across the pretty blue sky. Noisy white 39 were flying over her head as well. 40 they dived down suddenly to catch a fish, and then they flew right back up into the air. Jane often sat by the sea for hours to enjoy this special place.

- \_\_\_ 36. (A) way (B) part (C) lake (D) world  
\_\_\_ 37. (A) for (B) with (C) toward (D) from  
\_\_\_ 38. (A) Above (B) Ahead (C) Besides (D) Next  
\_\_\_ 39. (A) sands (B) birds (C) clouds (D) ships  
\_\_\_ 40. (A) Sometimes (B) Although (C) When (D) If

#### ESSAY 2

Champ is a young male chimpanzee. Recently, he did something that surprised scientists. The scientists had 41 some grapefruit in the sand, and only Champ knew where the grapefruit was. When the other chimps were in the area, however, Champ 42 that he did not know where the grapefruit was. Later, when the other chimps 43 Champ went right to the spot 44 the grapefruit was hidden, dug it up, and ate it. 45, Champ was able to make plans and trick his friends.

- \_\_\_ 41. (A) buried (B) eaten (C) grown (D) dug  
\_\_\_ 42. (A) realized (B) pretended (C) wondered (D) admitted  
\_\_\_ 43. (A) fell asleep (B) fall asleep (C) will fall asleep (D) are going to fall asleep  
\_\_\_ 44. (A) which (B) there (C) what (D) where  
\_\_\_ 45. (A) To the scientists' relief (B) Amazingly (C) To make matters worse (D) However

#### ESSAY 3

"Culture shock," according to specialists in intercultural studies, refers to the feelings which people 46 when they come into a new environment. 47 their studies, scientists have found that there are three stages of culture shock. In the first stage, the newcomers like their environment. Then, when the novelty 48, they begin to hate the people, the apartment, and everything 49 in their new environment. In the final stage of culture shock, the newcomers 50 their surroundings and, as a result, enjoy their life there.

- \_\_\_ 46. (A) experience (B) experiencing (C) experienced (D) to experience  
\_\_\_ 47. (A) Of (B) Despite (C) For (D) In  
\_\_\_ 48. (A) takes off (B) puts off (C) wears off (D) takes over  
\_\_\_ 49. (A) too (B) else (C) more (D) as  
\_\_\_ 50. (A) live with (B) appeal to (C) adjust to (D) escape from

1. 請各舉一生理現象說明 “Homeostasis”, “Negative feedback control” and “positive feedback control”。(10%)
2. 試述一個常見的基因指揮荷爾蒙合成之過程 (需包括 transcription, RNA procession, translation and post-translational modification)。(10%)
3. 有一個活體外研究欲測試肝細胞對 sucrose 之反應, sucrose 之濃度是欲模擬一個 70 Kg 體重的人服入 150 mg sucrose 後之體液狀態。已知將有 10 mg 會被代謝排出體外。試問需配多少濃度之 sucrose solution (mg/ml) 作活體外實驗最合宜? (10%)
4. 人體中細胞間訊息傳遞(intercellular communication)主要以哪些方式進行?(10%)  
  
簡述 steroid hormone or thyroid hormone 在目標細胞(target cell)之作用機制 (from receptor to cell response)。(10%)
6. 簡述透過 cAMP (cyclic adenosine monophosphate) 之細胞內訊息傳遞 (from cell membrane to nucleus)。(10%)  
  
簡述正常骨骼之新陳代謝, 以及停經後婦女之骨骼變化如何?(10%)
8. 何謂敗血症休克? 其對心臟血管之影響為何?(10%)
9. 何謂糖尿病? 其對醣類代謝之影響為何?(10%)
10. 何謂阿茲海默症(Alzheimer's disease)? 其神經細胞之 amyloid precursor protein 發生什麼變化?(10%)