

**Part I. Question 1 to 10, please choose the answer closest to the underlined word or phrase. One Answer Only. 2 points each.**

1. Leaders of the world's largest economies are close to an agreement to tackle the global financial crisis.  
(A) fight (B) meditate (C) forbid (D) deal with
2. I think people realize the economy seemingly fell off the cliff.  
(A) inclined (B) caught up (C) help up (D) slumped
3. In the future, globalization is going to be increasingly driven quickly to its processes and technologies, and start to march forward.  
(A) directed (B) motivated (C) forced (D) manipulated
4. The home team kicked off the season with an easy win.  
(A) interrupted (B) commenced (C) avoided (D) complicated
5. The use of stem cells is controversial - opponents object on the grounds that it is unethical to destroy embryos in the name of science.  
(A) adversaries (B) allies (C) forerunners (D) associates
6. Slumdog Millionaire is about a Mumbai teen who grew up in the slums, becomes a contestant on the Indian version of "Who Wants To Be A Millionaire?"  
(A) asylum seeker (B) gangster (C) youngster (D) homeless
7. Critical listening is a difficult kind of listening because it requires you to both interpret and evaluate the message.  
(A) understand (B) integrate (C) intrigue (D) compose
8. He is worried about a potential quiz tomorrow.  
(A) possible (B) actual (C) providential (D) surprising
9. These two girls prefer to have intimate conversation one-on-one  
(A) personal (B) secret (C) intelligent (D) discreet
10. His position was contrary to that of the teacher's  
(A) puzzling (B) opposite (C) compatible (D) foreseeable

**Part II. Question 11-15, please choose the answer that best completes the sentence. Question 16-20, please choose the best answer to fill each of the numbered blanks in the passage.**

In many countries, it is considered 11 to appear naked or even half-naked on a public beach. However, some places often have a few 12 beaches that are designated as nudist or "clothing optional" beaches, where uninhibited people can fully 13 themselves to the sun. Other countries, especially those where 14 are hot and attitudes are 15, impose no restrictions at all, so people may sunbathe topless or nude even on the public beaches.

11. (A) inappropriate (B) interesting (C) conservative (D) considerate
12. (A) inclusive (B) executive (C) secluded (D) acceptable
13. (A) demonstrate (B) expose (C) lie down (D) externalize
14. (A) seawater (B) cuisine (C) fashion (D) climates
15. (A) strict (B) sincere (C) liberal (D) general

There are many different forms of potential economic stimulus and they work in different ways. Tax cuts for individuals generally encourage short-term spending. Tax cuts for companies encourage both spending and investment. Expenditures on public works create contracts for firms and provide short- to medium-term 16. Investments in research and development take a longer-term approach 17 the theory 18 in the future (and thus provide jobs) if they have the money to make intelligent investments in their operations

now. Finally, some forms of economic stimulus seek to make investments that will pay off in the long run 19 for everybody. An example is investing in the U.S. energy grid. 20, a one-time outlay could make energy costs for both individuals and businesses less expensive for decades to come.

16. (A) opportunities of employment (B) employment opportunities  
(C) employing opportunities (D) employment in opportunities
17. (A) under (B) in (C) of (D) on
18. (A) business is going to be thrive (B) which business is going to be thrive  
(C) that business will thrive (D) business thrives
19. (A) with cheaper consumption (B) in making cheaper consumption  
(C) by consuming cheaply (D) by making consumption cheaper
20. (A) Theoretic concern (B) Theoretical (C) Being theoretic (D) Theoretically

**Part III. Reading Comprehension. In this part, you will read several passages. Each one is followed by one question or a number of questions. Question 21 – 40, you should choose the ONE best answer to each question. 2 points Each.**

**Question 21-25**

The importance of strength in many sports is undeniable. It is so important that many university and professional teams now hire a specialized coach who only attends to the development of strength in athletes. It is interesting to note that no such specialist is hired to attend to the other components of physical fitness. We have yet to see a cardiovascular coach, a coach who attends to developing fitness of the heart and blood vessels, hired by universities or professional teams. This situation raises the question of the relative importance of each of these two components, strength training and cardiovascular training, to the other. Does the strength coach develop the cardiovascular system by prescribing a program to increase muscle fiber?

It is theoretically possible to design a weight-lifting program in which the resistance is so low and the repetitions so numerous that it provides the cardiovascular benefits of a running program. Therefore, if you view weights as a way to overload muscles, you can imagine a continuum of programs that emphasize cardiovascular benefits on the one extreme and strength on the other. The practical truth of the matter is that most coaches are primarily concerned with pure strength. Therefore, the athlete has to work on the end of the weight-overload continuum that promotes little, if any, cardiovascular benefit. In fact, one study has found that a high-intensity strength program reduced mitochondrial density (density of the cellular structures that produce energy in the muscle fiber) per unit of muscle. The athletes increased muscle mass, so they did not eliminate mitochondria presumably, but the fact remains that the oxidative capacity, the ability to use oxygen in the synthesis of energy, was not promoted. Oxidative capacity would usually improve in programs that stress cardiovascular conditioning. Neither increased blood flow nor increased mitochondrial density (both indicators of oxygen extraction) occur with strength training.

Obviously, there is nothing wrong with training athletes to gain strength, but in most strength programs cardiovascular improvements are not made. Therefore, for athletes, who require both strength and cardiovascular conditioning, both components must be trained independently.

21. What is the main point of the passage?
- (A) College and professional teams do not need specialized coaches.  
(B) Strength training should be replaced by cardiovascular training.  
(C) Cardiovascular training is more difficult than strength training.  
(D) Athletes need both strength and cardiovascular training.

22. Under which of the following conditions can a weight-lifting program provide cardiovascular benefits?
- (A) When the weights are very heavy
  - (B) When the weights are lifted very slowly
  - (C) When lifting a heavy weight overtires the muscles
  - (D) When light weights are lifted a large number of times
23. Why does the author mention running?
- (A) To give an example of the benefits of strength training
  - (B) To demonstrate what a typical weight program includes
  - (C) To give an example of an activity that provides cardiovascular conditioning
  - (D) To demonstrate the importance of oxygen extraction
24. Which of the following is an important direct result of cardiovascular training?
- (A) Improved oxidative capacity
  - (B) Increased muscle fiber
  - (C) Decreased mitochondrial density
  - (D) Increased body weight
25. Which of the following policies would the author be most likely to support?
- (A) Sports teams should increase their strength-training programs.
  - (B) All athletes should be able to choose the kinds of training they prefer.
  - (C) Sports teams should provide improved cardiovascular training.
  - (D) All athletes should avoid strength training in order to avoid injury.

**Question 26-31**

It is in search of adequate food supplies that cetaceans, marine mammals such as whales and dolphins, travel the oceans. They live in a world that is largely hidden from humans. Yet their range is three times as large as ours, since oceans occupy about three-quarters of the Earth's surface. They travel through well-marked ocean zones, **each** with its own characteristic marine life. They glide through the water, periodically rising to the surface to breathe. The sea may be raging but cetaceans are untroubled by the greatest storms; indeed they are more at home in rough than in calm seas.

Indirectly, however, their life is greatly influenced by wind. The eastward rotation of the Earth produces the **prevailing** trade winds, blowing east to west at the equator. These winds drag the surface waters and all they contain in a westerly direction. Warmed by its passage through the tropics, the wind-driven water is deflected against the westward continents, turning southwest in the Southern Hemisphere and northwest in the Northern Hemisphere.

In the Southern Hemisphere, the warm flow of tropical water under the west-going equatorial trade wind produces a genial climate along the eastern shores of Australia, South America, and South Africa. But there is open ocean to the south. Here the current is driven eastward unimpeded by land before the almost incessant westerly gales of this zone. The huge mass of water moves fast, chilled by water from the Antarctic Region, but **laden** with masses of plankton.

This cold, swift current is **split** when it strikes the southwestern extremities of the three southern continents. The northern portion of this water is diverted by the southwest coast of South America to sweep northward toward the equator. Known as the Humboldt Current, this current is rich in plankton on which cetaceans feed. Part of this same cool eastward-flowing current, enriched with water from higher latitudes, is similarly diverted north along the southwest coast of South Africa. This is the Benguela Current, where many cetaceans come to feed.

26. The passage answers which of the following questions?
- (A) What is the main difference between cetaceans and other marine life?

- (B) How far do most cetaceans travel in a year?  
(C) How often do cetaceans need to breathe?  
(D) What winds and ocean currents affect cetaceans?
27. The word **each** in paragraph 1 refers to a  
(A) cetacean (B) surface (C) range (D) zone
28. The word **prevailing** in the passage is closest in meaning to  
(A) arctic (B) blowing (C) dominant (D) energetic
29. The word **laden** in paragraph 3 is closest in meaning to  
(A) balanced (B) filled (C) touched (D) wrapped
30. The word **split** in paragraph 4 is closest in meaning to  
(A) stopped (B) divided (C) opened (D) surrounded
31. What do paragraphs 3 and 4 primarily discuss?  
(A) The water currents in the Southern Hemisphere  
(B) The trade winds in the Southern Hemisphere  
(C) The three continents in the Southern Hemisphere  
(D) The large area of open ocean in the Southern Hemisphere.

**Question 32-36**

Doris Lessing received her Nobel Prize in 2007. Her novel *The Golden Notebook* is considered a feminist classic by some scholars, but notably not by the author herself, who later wrote that its theme of mental breakdowns as a means of healing and freeing one's self from illusions had been overlooked by critics. She also regretted that critics failed to appreciate the exceptional structure of the novel. As she explains in *Walking in the Shade*, Lessing modeled Molly, to an extent, on her good friend Joan Rodker, the daughter of the author and publisher John Rodker.

Lessing does not like the idea of being pigeon-holed as a feminist author. When asked why, she replies:

What the feminists want of me is something they haven't examined because it comes from religion. They want me to bear witness. What they would really like me to say is, 'Ha, sisters, I stand with you side by side in your struggle toward the golden dawn where all those beastly men are no more.' Do they really want people to make oversimplified statements about men and women? In fact, they do. I've come with great regret to this conclusion.

- Doris Lessing, *The New York Times*, 25 July, 1982[8]

32. Doris Lessing is a Nobel Prize winner in  
(A) Feminism. (B) Literature. (C) Sociology. (D) Peace.
33. According to Doris, what feminists want from her is  
(A) exceptional structure. (B) fighting against men.  
(C) creative ideas about men and women. (D) healing power from battles between men and women.
34. Doris Lessing does not particularly like the idea of being **pigeon-holed** as a feminist; pigeon-holed here means  
(A) categorized (B) wholesale (C) viewed (D) completed
35. Which of the following statements is **FALSE**?  
(A) Critics often neglect the theme of mental breakdowns as a self-freeing power.  
(B) She models a heroine on her friend in one of her books.  
(C) Her book *The Golden Book* is particularly considered a feminist one by Lessing.  
(D) Lessing thinks critics understand her work very well.
36. Generally speaking, Lessing's attitude towards being considered a feminist is  
(A) accepting (B) disappointed (C) welcomed (D) patient

**Question 37-40**

In recent years, many Taiwanese have won awards at international film festivals. However, many theater owners don't consider even prize-winning Taiwanese films to have much commercial potential in their home market. Their viewpoint is generally confirmed by the largely empty seats at showings of locally produced movies. The market share for local films is only about two percent, while more than 95 percent of the market is taken by Hollywood blockbusters. The dominance of American-made films in Taiwan has continued for the past ten years, but the government is proposing some solutions. It is hoped that some legal changes and few promotional projects will help Taiwan's struggling film industry.

One proposal is to give individuals or companies a tax deduction for money spent to produce a film. The idea is that the tax deduction would encourage investments in new films. There are also plans to provide financial support not only for film production, but also for marketing.

37. Which of the following could be a title for this passage?

- (A) The international Movie Industry and Taiwanese Films
- (B) Trends in Taiwanese Moviegoing Habits
- (C) Prize-Winning Taiwanese Films
- (D) A Helping Hand for the Taiwanese Film Industry

38. Which of the following statements is true about Taiwanese films in general?

- (A) They have been commercially successful both locally and abroad.
- (B) Most production of local films has been moved to Hollywood.
- (C) They have won many international awards, but little response from local audiences.
- (D) They have found little success anywhere in the world.

39. What does the passage imply is the main reason that Taiwanese films do not have a large local audience?

- (A) Taiwanese audiences dislike prize-winning films, thinking them "arty."
- (B) American films are superior in quality.
- (C) The Taiwanese film industry is not supported well enough financially.
- (D) Ticket prices for local films are too high.

40. How is the government attempting to help the local film industry?

- (A) By limiting the number of foreign films that local theater owners can show.
- (B) By encourage lower ticket prices for local films.
- (C) By establishing schools for training local filmmaking talent.
- (D) By helping to make creating and promoting local films more affordable.

**Part IV. Essay. 20 points.**

**Do you think that technology alienate people from one another? Why or Why not? Please write a well-structured essay in 150 to 200 words discussing your opinions.**

## 1. 試述下列名詞之定義及其在臨床應用之重要性 20%

- (1) Clinical pharmacokinetics
- (2) Pharmacovigilance
- (3) Bioavailability
- (4) Nonlinear pharmacokinetics
- (5) Pharmacogenetics

## 2. 請閱讀以下文章摘要並回答問題: 15%

**Context** Prior mechanistic studies reported that omeprazole decreases the platelet inhibitory effects of clopidogrel, yet the clinical significance of these findings is not clear.

**Objective** To assess outcomes of patients taking clopidogrel with or without a proton pump inhibitor (PPI) after hospitalization for acute coronary syndrome (ACS).

**Design, Setting, and Patients** Retrospective cohort study of 8205 patients with ACS taking clopidogrel after discharge from 127 Veterans Affairs hospitals between October 1, 2003, and January 31, 2006. Vital status information was available for all patients through September 30, 2006.

**Main Outcome Measures** All-cause mortality or rehospitalization for ACS.

**Results** Of 8205 patients taking clopidogrel after discharge, 63.9% (n = 5244) were prescribed PPI at discharge, during follow-up, or both and 36.1% (n = 2961) were not prescribed PPI. Death or rehospitalization for ACS occurred in 20.8% (n = 615) of patients taking clopidogrel without PPI and 29.8% (n = 1561) of patients taking clopidogrel plus PPI. In multivariable analyses, use of clopidogrel plus PPI was associated with an increased risk of death or rehospitalization for ACS compared with use of clopidogrel without PPI (adjusted odds ratio [AOR], 1.25; 95% confidence interval [CI], 1.11-1.41). Among patients taking clopidogrel after hospital discharge and prescribed PPI at any point during follow-up (n = 5244), periods of use of clopidogrel plus PPI (compared with periods of use of clopidogrel without PPI) were associated with a higher risk of death or rehospitalization for ACS (adjusted hazard ratio, 1.27; 95% CI, 1.10-1.46). In analyses of secondary outcomes, patients taking clopidogrel plus PPI had a higher risk of hospitalizations for recurrent ACS compared with patients taking clopidogrel without PPI (14.6% vs 6.9%; AOR, 1.86 [95% CI, 1.57-2.20]) and revascularization procedures (15.5% vs 11.9%; AOR, 1.49 [95% CI, 1.30-1.71]), but not for all-cause mortality (19.9% vs 16.6%; AOR, 0.91 [95% CI, 0.80-1.05]). The association between use of clopidogrel plus PPI and increased risk of adverse outcomes also was consistent using a nested case-control study design (AOR, 1.32; 95% CI, 1.14-1.54). In addition, use of PPI without clopidogrel was not associated with death or rehospitalization for ACS among patients not taking clopidogrel after hospital discharge (n = 6450) (AOR, 0.98; 95% CI, 0.85-1.13).

**Conclusion** Concomitant use of clopidogrel and PPI after hospital discharge for ACS was associated with an increased risk of adverse outcomes than use of clopidogrel without PPI, suggesting that use of PPI may be associated with attenuation of benefits of clopidogrel after ACS. **JAMA. 2009;301(9):937-944.**

- (1) 詳述 clopidogrel 及 proton pump inhibitor (PPI) 之藥品特性、作用機轉、適應症、及常見的副作用。
- (2) 本篇文獻主要的重點為何？

3. 王先生 50 歲體重正常，因病接受治療，其處方箋如下，請回答下列問題: 15%

過敏藥物[Penicillins]

診斷1:250.02 第二型(非胰島素依賴型，成人型)或未明示型糖尿病，未提及併發症

診斷2:414.9 缺血性心臟病

診斷3:401.1 良性自發性高血壓

藥品名稱	用量單位	頻次	途徑	總量單位	開始日期
[01] Vancomycin 500mg/vial (泛可黴素)	1VIAL	Q12H	IV	6VIAL	94/09/13
[02] Sodium chloride injection 0.9% 500ml/bot (氯化1BOT)	1BOT	QD	INF	3BOT	94/09/09
[03*] Cardiolol Tablets 10mg (心律整錠)	0.5TAB	BID	PO	3TAB	94/09/09
[04*] Glubin F.C. Tablet (利糖平膜衣錠)	1粒	BID	PO	6粒	94/09/09
[05*] Semi-Nax 10mg F.C. Tab. (舒眠諾思)	1TAB	HS	PO	3TAB	94/09/09
[06*] Through Tablets (Sennosides) (便通樂)	2粒	HS	PO	6粒	94/09/09
[07] Adalat Oros 30 (冠達悅歐樂持續性藥效錠)	1TAB	QD	PO	3TAB	94/09/09
[08*] Cozaar 50mg F.C. Tab (可悅您膜衣錠)	1TAB	QD	PO	3TAB	94/09/09

- (1) 以藥師之專業對此處方有何建議?
  - (2) 若要進一步評估王先生用藥之適當及追蹤療效，需了解那些相關訊息及數據資料 (lab data...)?
  - (3) 如何對病人提供相關之用藥指導?
4. 陳先生 55 歲，患有中風、心絞痛、睡眠障礙，由內科醫師處方一些藥物，有些一天一次，有些一天兩次。陳先生對所拿到的藥品並不了解應如何服藥，便到藥物諮詢窗口請教藥師，藥品處方如下: 10%

學名	商品名	劑量	每次量	頻次	天數	總量
A	Coumardin	5 mg	0.5	QD AM	14	7
B	Imdur CR	60 mg	1	QD AM	14	14
C	Stilnox	10 mg	0.5	HS	14	7
D	Xanax	0.25 mg	1	BID	14	28

- (1) 請填入上述處方藥品 A-D 項之學名
  - (2) 藥師應提供那些有關處方用藥資訊給陳先生?
  - (3) 藉由那些數據可評估陳先生在治療上的合適性?
5. 試述「骨質疏鬆症(Osteoporosis)」在藥物治療之目標為何? 並說明目前可供選擇之藥品、給藥方式及其使用注意事項。10%
6. 試述在嬰幼兒及老年人族群接受藥物治療時，可能會有那些與藥品有關之問題值得藥師多加注意? 10%
7. 當門診病人因感染需口服抗生素治療時，藥師應如何給予病人用藥指導，以增加其依順性、減少副作用的發生並能達到最佳之療效? 10%
8. 何謂 Pharmaceutical care，在醫療團隊中，藥師的專業及責任為何? 10%