

請務必於試卷紙上作答，違者該科不於計分。

**I. Vocabulary: Choose the answer that best completes the sentence. (20%)**

1. Having beautiful hair is such a sign of health and attractiveness, particularly for white women, because their hair tends to be very \_\_\_\_\_, and it needs extra care.  
a. cybernetic                      b. wasted                      c. fragile                      d. sober
2. Three Americans are among those killed in a deadly \_\_\_\_\_ last week in Algeria to rescue hostages taken when Islamic militants overtook a gas facility.  
a. raid                      b. inaugural                      c. coverage                      d. hug
3. Nehemiah Griego, who is 15, said he had \_\_\_\_\_ and suicidal thoughts before he grabbed a rifle from his parents' closet and shot his mother in her head.  
a. responsible                      b. surgical                      c. homewards                      d. homicidal
4. Priests \_\_\_\_\_ of abuse were sent away for treatment, but often only after long delays, and many cases slipped under the radar.  
a. suspected                      b. limited                      c. struck                      d. permitted
5. The number of kids \_\_\_\_\_ with attention deficit hyperactivity disorder (ADHD) rose 24 percent between 2001 and 2010.  
a. riddled                      b. diagnosed                      c. forced                      d. regarded
6. \_\_\_\_\_ by the Kaiser Permanente Southern California Institute, the study differs from previous ones in that it offered a comprehensive look at medical records.  
a. Caused                      b. Remained                      c. tolerated                      d. Conducted
7. "If there are people trying to do bad stuff to our guys, then we'll take them out of the game, I suppose," he said in one of several interviews \_\_\_\_\_ to the media.  
a. petitioned                      b. emphasized                      c. released                      d. initiated
8. Two additional attackers, armed with automatic rifles, stormed the area and fought with security forces for nearly eight hours. The \_\_\_\_\_ killed three police officers and all five attackers.  
a. election                      b. assault                      c. regulation                      d. display
9. British designer Mary Katrantzou is known for her \_\_\_\_\_ prints. Now an artist has reimagined them into vivid photographs.  
a. reasonable                      b. merciful                      c. brutal                      d. extravagant
10. While many people appeared \_\_\_\_\_ last week by the news that the Los Angeles Lakers star and his wife had dropped their divorce action, those close to the couple say this was always the inevitable end for the two.  
a. stunned                      b. charged                      c. instant                      d. gained

**II. Sentence Completion: Choose the word that best completes the sentence (10%)**

11. Hard work can make \_\_\_\_\_ for a lack of intelligence.  
a. down                      b. in                      c. up                      d. out
12. A number of questions came \_\_\_\_\_ at the meeting.  
a. of                      b. X                      c. for                      d. up
13. The drowning man called \_\_\_\_\_ vain for help.  
a. in                      b. X                      c. at                      d. for
14. In \_\_\_\_\_ of his youth, the police have decided not to continue with the case against him.  
a. find                      b. view                      c. note                      d. think
15. Guess who I bumped \_\_\_\_\_ today? It was Michael!  
a. on                      b. into                      c. at                      d. for

**III. Cloze Test: Choose the best answer for each missing word or phrase in the following passages (20%)**

The Holkham Hebrew Bible, in a show of Jewish books and documents from the Bodleian Library in Oxford, now on view at the Jewish Museum in New York. The book was printed in Naples in 1491/2, by one Joshua Solomon Soncino. Not only is it \_\_\_\_\_ 16 \_\_\_\_\_, but it's poignant as well. The hand-colored decoration shows how fully its maker \_\_\_\_\_ 17 \_\_\_\_\_, and appreciative of, the Christian culture of the Italian Renaissance. (Identical decoration was used on a chivalric romance.) Yet at

this same time, Jews \_\_\_\_\_18\_\_\_\_\_ in vast numbers from Spain and were confined to ghettos in Italy. The \_\_\_\_\_19\_\_\_\_\_ and segregation made no cultural sense, but that didn't stop it \_\_\_\_\_20\_\_\_\_\_.

16. a. gorilline                      b. gorger                      c. gorgeously                      d. gorgeous  
17. a. was immersing                      b. immersing                      c. was immersed in                      d. immerse  
18. a. were being expelled                      b. expel                      c. was expelled                      d. was expelling  
19. a. persecute to                      b. persecution                      c. persecute                      d. persecuting  
20. a. from happening                      b. happen                      c. happened                      d. on happening

The foursome \_\_\_\_\_21\_\_\_\_\_ a fishing expedition over the holidays and were headed back to Italy to start the new year.

Missoni was expected to attend men's fashion week in Milan this week, but his plane disappeared from radar shortly \_\_\_\_\_22\_\_\_\_\_ from the island. At first glance, the \_\_\_\_\_23\_\_\_\_\_ seems like a standard air-to-sea accident, but the Missoni family is not yet ready to give up hope. "A plane \_\_\_\_\_24\_\_\_\_\_ in this way, on a short route, without leaving any trace," Missoni's 28-year-old son Ottavio told an Italian newspaper last week. "I \_\_\_\_\_25\_\_\_\_\_ that the least plausible reason is that they crashed into the water."

21. a. have                      b. had been on                      c. had been                      d. have been on  
22. a. of taking                      b. after taking                      c. after take off                      d. after taking off  
23. a. disappeared                      b. disappears                      c. disappearance                      d. disappear  
24. a. cannot vanish                      b. is to vanish                      c. should vanish                      d. could be vanished  
25. a. remain convinced                      b. convinced                      c. cannot convince                      d. am convince

**IV. Written Expression: Identify the underlined word or phrase that must be changed in order for the sentence to be correct (14%).**

26. a) The Los Angeles City Council voted b) unanimous last fall to c) build a new football stadium d) in the heart of downtown.  
27. Experts say a) sports teams rarely b) regulate cities the economic growth c) that is initially d) expected.  
28. 2012 has been a) an 'awful' year b) for c) major Wall Street companies, so what should we d) impact in 2013?  
29. a) Bonus and salaries b) have been cut at c) all of the big Wall Street d) firms.  
30. a) Instead just b) searching for content that already has its own page c) on Facebook—think fan pages, groups, or events—Graph Search will d) allow users to make much more specific searches.  
31. Google's a) big shift in search has been to move away from b) display links and letting users c) go on their way and answer more questions d) directly through information in the Google universe.  
32. a) It was an b) audaciously political speech, a statement of personal and c) partisan principle, d) rather the expected broad bipartisan outreach.

**V. Reading Comprehension: Choose the best answers to the following questions (36%)**

The word *euthanasia* is of Greek origin and literally means "a good death." The American Heritage Dictionary defines it as "the act of killing a person painlessly for reasons of mercy." Such killing can be done through active means, such as administering a lethal injection, or by passive means, such as withholding medical care or food and water.

In recent years in the United States, there have been numerous cases of active euthanasia in the news. They usually involve the deliberate killing of ill or incapacitated persons by relatives or friends who plead that they can no longer bear to see their loved ones suffer. Although such killings are a crime, the perpetrators are often dealt with leniently by our legal system, and the media usually portrays them as compassionate heroes who take personal risks to save another from unbearable suffering.

The seeming acceptance of active forms of euthanasia is alarming, but we face a bigger, more insidious threat from passive forms of euthanasia. Every year, in hospitals and nursing homes around the country, there are growing numbers of documented deaths caused by caregivers withholding life-sustaining care, including food and water, from vulnerable patients who cannot speak for themselves.

While it is illegal to kill someone directly, for example with a gun or knife, in many cases the law has put its stamp of approval on causing death by omitting needed care. Further, many states have "living will" laws designed to protect those who withhold treatment, and there have been numerous court rulings which have approved of patients being denied care and even starved and dehydrated to death.

Because such deaths occur quietly within the confines of hospitals and nursing homes, they can be kept hidden from the public. Most euthanasia victims are old or very ill, so their deaths might be attributed to a cause other than the denial of care that really killed them. Further, it is often relatives of the patient who request that care be withheld. In one court case, the court held that decisions to withhold life-sustaining care may be made not only by close family members but also by a number of

third parties, and that such decisions need not be reviewed by the judicial system if there is no disagreement between decision makers and medical staff. The court rules that a nursing home may not refuse to participate in the fatal withdrawal of food and water from an incompetent patient.

33. As used in paragraph 1, which is the best definition of “**lethal**”?

- a. proceeding in a gradual, subtle way
- b. referring to the effect or influence of one person, thing, or action
- c. sufficient to cause death
- d. referring to promptness or speed in doing something

34. As mentioned in paragraph 2, “the perpetrators are often dealt with leniently by our legal system” because

- a. the perpetrators are committing a crime
- b. the perpetrators are willing to stop their loved ones’ pain and bear the risk of being charged with killing
- c. the perpetrators are heroes who are filled with compassion and portrayed by the media
- d. the perpetrators involve the deliberate killing of ill or incapacitated persons

35. In paragraph 3, one faces “a bigger, more insidious threat from passive forms of euthanasia” since

- a. caregivers use active forms of euthanasia
- b. that caregivers withholding life-sustaining care is easier than using active forms of euthanasia
- c. food and water can involve in the deliberate killing of ill
- d. vulnerable patients accepts passive forms of euthanasia

36. In paragraph 4, “put its stamp of approval on” can be rewritten as

- a. have or express an unfavorable opinion about something
- b. have the same characteristics or qualities as
- c. be grateful for something
- d. officially agree to or accept as satisfactory

37. The author maintains that death by withholding care is

- A. largely confined to hospitals
- B. difficult to prove if prosecuted
- C. often requested by family members
- D. approved by living wills

38. The attitude of the author can best be described as

- a. objective
- b. partial
- c. passionate
- d. macaber

39. To conclude, euthanasia is a kind of

- a. Greek death
- b. dehydrated death
- c. merciful death
- d. unbearable suffering

In his thought-provoking work, *Philosophical Investigations*, Ludwig Wittgenstein uses an easily conceptualized scenario in an attempt to clarify some of the problems involved in thinking about the mind as something over and above the behaviors that it produces. Imagine, he says, that everyone has a small box in which they keep a beetle. No one is allowed to look in anyone else’s box, only in their own. Over time, people talk about what is in their boxes and the word “beetle” comes to stand for what is in everyone’s box.

Through this curious example, Wittgenstein attempts to point out that the beetle is very much like an individual’s mind; no one can know exactly what it is like to be another person or experience things from another’s perspective—look in someone else’s “box”—but it is generally assumed that the mental workings of other people’s minds are very similar to that of our own (everyone has a “beetle” which is more or less similar to everyone else’s). However, it does not really matter—he argues—what is in the box or whether everyone indeed has a beetle, since there is no way of checking or comparing. In a sense, the word “beetle”—if it is to have any sense or meaning—simply means “what is in the box”. From this point of view, the mind is simply “what is in the box”, or rather “what is in your head”.

Wittgenstein argues that although we cannot know what it is like to be someone else, to say that there must be a special mental entity called a mind that makes our experiences private, is wrong. His rationale is that he considers language to have meaning because of public usage. In other words, when we talk of having a mind—or a beetle—we are using a term that we have learned through conversation and public discourse (rooted in natural language). The word might be perceived differently in each of our minds, but we all agree that it signifies something; this allows us to develop language for talking about conceptualizations like color, mood, size and shape. Therefore, the word “mind” cannot be used to refer specifically to some entity outside of our individualized conception, since we cannot see into other people’s boxes.

40. According to the last paragraph, “the word “mind” cannot be used to refer specifically to some entity outside of our individualized conception” because

- a. there is no way of checking or comparing what is going on in another person’s mind
- b. Wittgenstein’s rationale is that a mind makes our experiences private
- c. one often looks in someone else’s “box”

- d. the word “mind” is an easily conceptualized scenario
41. Wittgenstein would most likely disagree with which of the following statements?
- A. It is impossible to know another person’s thoughts.  
 B. The mind is a special mental substance.  
 C. The color green may actually look different to everybody.  
 D. Words do not always accurately represent the things they symbolize.
42. As used in paragraph 3, which is the best definition or synonym for **discourse**?
- A. information given via the senses of sight or hearing  
 B. engagement  
 C. announcement  
 D. written or spoken communication
43. In paragraph 3, since a “word might be perceived differently in each of our minds”
- a. it is impossible for us to communicate  
 b. one develops conceptualizations of various objects  
 c. one has to study philosophy  
 d. imagination is important in regard to thinking
44. In the first paragraph, “thought-provoking” means
- a. inspiring                      b. frustrating                      c. puzzling                      d. applicable
45. “Beetle” refers to
- a. things that are put in boxes  
 b. everyone indeed has an insect in his head  
 c. the mind that is comparable to a box  
 d. Wittgenstein’s attempt to communication

SOME sage once quipped that writing about music is about as edifying—and evocative—as dancing about architecture. Certainly most music criticism has a lifeless quality, packed with adjectives yet tuneless on the page. Yet Alex Ross, a music critic for the *New Yorker*, manages to stand out. His gifts as a writer are all the more impressive given that his subject tends to be the most difficult music composed in the last century, from Gustav Mahler to Steve Reich.

“The Rest is Noise”, his best-selling 2007 book on the history of the 20th century through its music, is now being re-worked as a year-long music festival at the Southbank centre in London. Although Mr Ross was not involved in organising the festival, he will be giving four lectures on the history of 20th-century music.

Mr Ross spoke to *The Economist* about why he wrote this book in the first place, and why it is particularly hard to get contemporary audiences excited about modern music.

“It took you ten years to write “The Rest is Noise”. What was your motivation?”

“It emerged really from an obsession that I had with 20th-century music going back to my teenage years. At university I immersed myself in it very heavily with a radio show that I had. I was also studying literature and history—especially late-19th century and early-20th century period—so it all coalesced.”

“I grew up listening to classical music in the traditional sense, from Bach to Brahms. That was the world I was completely absorbed in. I really didn’t listen to any other kind of music aside from this repertory. So it was something of a shock to slowly realise that there was more to the story, and I was shocked and fascinated when my piano teacher in high school played works by Schoenberg, Berg and Bartok. I started making my way through them at the piano, and after an initial struggle, I really fell in love with the music. I was fascinated by the music itself, by the surrounding cultural and historical context, and wanted to figure out how it all fit together. So it seemed inevitable that this would be the subject.”

46. In the last paragraph, “coalesced” means
- a. merge                      b. distribute                      c. confuse                      d. discriminate
47. Most people think that music criticism is
- a. contributive                      b. useless                      c. harmful                      d. vivid
48. Alex Ross
- a. stands out playing music in a year-long music festival  
 b. organize music festival related to Mahler and Reich  
 c. gives lectures concerning the history of a certain period of music

d. studies literature and becomes a writer of novels

49. The **best** synonym for “immersed” is

a. fascinated            b. persuaded            c. extended            d. absorbed

50. According to Ross, music

a. is an independent subject that does not involve its context

b. usually has a great story

c. always brings one struggle when one tries to play the piano

d. is deeply related to culture and history

請務必於試卷紙上作答，違者該科不於計分。

1. 請舉例說明 cellular transmembrane signaling pathway。(15%)
2. 農村有時發生農民藥物中毒，請敘述如何進行藥物治療?(15%)
3. 請敘述治療高血壓的藥物(antihypertensive drugs)之分類、作用機轉及副作用。(20%)
4. 請敘述治療鬱血性心衰竭時會使用的強心劑分類及其限制。(10%)
5. 請敘述治療病毒性肝炎的藥物作用機轉和副作用。(15%)
6. 請敘述治療骨質疏鬆症之藥物分類、作用機轉及副作用。(15%)
7. 請敘述 Serotonin agonist 和 antagonist 各一個藥物，說明其作用機轉、臨床用途和副作用?(10%)

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高雄醫學大學 102 學年度 研究所碩士班 招生考試 系所：醫學研究所 碩士班  
科目：病理學

請務必於試卷紙上作答，違者該科不於計分。

問答題(從下列六題中，任選五題作答)(每題二十分)

- 一、試敘述細胞在可逆性傷害(reversible injury)時之形態上的改變。
- 二、試敘述急性發炎之各種形態型式(morphologic patterns)。
- 三、試敘述血栓形成(thrombosis)的原因及各種血栓的病理特徵。
- 四、試敘述類澱粉沈積症(amyloidosis)的種類及特徵。
- 五、試敘述腫瘤細胞之細胞外基質侵犯(extracellular matrix invasion)。
- 六、試分別敘述以下腫瘤的病理特徵:
  - i. 威爾姆氏腫瘤(Wilms tumor)
  - ii. 胃腸道基質腫瘤(Gastrointestinal stromal tumor)

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高雄醫學大學 102 學年度 研究所碩士班 招生考試 系所：醫學研究所碩士班 基礎組  
科目：微生物與免疫學

請務必於試卷紙上作答，違者該科不於計分。

Explain functions of the followings. (3 points for each, 30%)

1. Class switch recombination
2. Regulatory T cell
3. Integrase of retrovirus
4. Primase-helicase of *Escherichia coli*
5. Inflammasome
6. Major histocompatibility complex
7. Tuberculin test
8.  $\gamma$ -Interferon
9. RPR test (rapid plasma reagin test)
10. Phagolysosome

Explain the application of the following techniques (4 points for each, 20%)

1. RNA interference
2. Flow cytometry
3. Confocal microscopy
4. Yeast two-hybrid assay
5. Pseudovirus transduction

Essay questions

1. Please describe the biomedical significances of “Human Microbiome Project” revealed in recent years. (10%)
2. In 2012, the childhood vaccination program enforced by Center for Disease Control, ROC (Taiwan) targets eleven infectious agents. Accordingly, please write the name of FIVE infectious agents and describe their associated diseases and vaccine characteristics. (5 points for each, 25%)
3. Please describe the immune responses during the progression of human immunodeficiency virus (HIV) infection in the adults with respect to (1) dendritic cells, (2) CD4+, CD8+ T cells, (3) antibodies and B cells. (5 points for each, 15%)



請務必於試卷紙上作答，違者該科不於計分。

1. 請敘述 point-of-care testing(POCT)之特性及品管。(15%)
2. 如何以實驗室檢驗方法，確認受檢者是海洛因(Heroine)的慣用者?長期使用海洛因者易造成那些公共衛生的問題，需同時偵測哪些項目。(10%)
3. 請敘述人類乳突病毒(human papilloma virus; HPV)之特性及實驗室之檢驗方法。(15%)
4. 請敘述血小板功能分析(platelet function assay)及其臨床應用。(15%)
5. 請敘述糞便潛血反應(occult blood)之檢驗及其臨床應用。(15%)
6. 如果有一支來自於急診室的檢體，其測出之血糖數值為 550 mg/dL，你覺得有那些情形會造成這種數值?接下來你該如何處理這份報告?(15%)
7. 請敘述多重抗藥性結核病(multidrug resistant tuberculosis; MDRTB)發生之原因及實驗室診斷方法。(15%)

請務必於試卷紙上作答，違者該科不於計分。

1. What are the biological epigenetic markers in eukaryotic cells? (10%)
2. Draw a figure and explain the cell death pathways. (10%)
3. Describe the basic experimental methods to measure apoptosis and cell cycle progression. (10%)
4. Describe the role of “proteolysis” in cell cycle progression. (10%)
5. Describe the interaction between specific transcription factor, enhancer, promoter, initiator, and general transcription factors in eukaryotic transcriptional activation. (10%)
6. Describe the initiation of replication in prokaryotic cell. (10%)
7. Describe the production and biological function of miRNA in eukaryotic cells. (10%)
8. Describe the folding of DNA into interphase chromosome in eukaryotic cell. (10%)
9. The expression of X gene can be induced by incubation of the cells with epidermal growth factor. Addition of actinomycin D can abolish this induction. What is your experimental approach to study the molecular mechanism of induction of X gene by epidermal growth factor. (10%)
10. You have identified a novel gene KMU-1, and expressed the HA-tagged KMU-1 protein in COS-1 cells. Immunofluorescence with anti-HA antibody revealed the KMU-1 was mainly localized in cytosol; however, the KMU-1 rapidly transported into nucleus after UV irradiation. What is your experimental approach to study the molecular mechanism of KMU-1 translocation under UV irradiation? (10%)

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高雄醫學大學 102 學年度 研究所碩士班 招生考試 系所：醫學研究所碩士班-臨床醫學組  
科目：生理學及病理學

請務必於試卷紙上作答，違者該科不於計分。

每題 10 分

1. 貧血的可能病因、病理與臨床表徵為何?
2. 血管內皮細胞所產生的一氧化氮(nitric oxide)其作用與分子機制為何?
3. 試述敗血性休克導致多重器官衰竭的病生理機制
4. “Atherosclerotic plaque formation”機制為何?
5. 試述消化道潰瘍可能的病因
6. 試述人體肝臟運送膽固醇的生理機制
7. 試述 PTH, 1,25-(OH)<sub>2</sub>D, calcitonin 如何調控血液中鈣離子的衡定
8. 糖尿病之急性與慢性併發症為何? 並請分別敘述併發症產生之原理
9. 何謂條件式基因剔除(conditional knock out), 請舉例說明如何應用此技術探討醫學研究
10. 試以內分泌系統為例, 說明“pulsatile secretion”的重要性

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a. cybernetic                      b. wasted                      c. fragile                      d. sober
2. Three Americans are among those killed in a deadly \_\_\_\_\_ last week in Algeria to rescue hostages taken when Islamic militants overtook a gas facility.  
a. raid                      b. inaugural                      c. coverage                      d. hug
3. Nehemiah Griego, who is 15, said he had \_\_\_\_\_ and suicidal thoughts before he grabbed a rifle from his parents' closet and shot his mother in her head.  
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4. Priests \_\_\_\_\_ of abuse were sent away for treatment, but often only after long delays, and many cases slipped under the radar.  
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5. The number of kids \_\_\_\_\_ with attention deficit hyperactivity disorder (ADHD) rose 24 percent between 2001 and 2010.  
a. riddled                      b. diagnosed                      c. forced                      d. regarded
6. \_\_\_\_\_ by the Kaiser Permanente Southern California Institute, the study differs from previous ones in that it offered a comprehensive look at medical records.  
a. Caused                      b. Remained                      c. tolerated                      d. Conducted
7. "If there are people trying to do bad stuff to our guys, then we'll take them out of the game, I suppose," he said in one of several interviews \_\_\_\_\_ to the media.  
a. petitioned                      b. emphasized                      c. released                      d. initiated
8. Two additional attackers, armed with automatic rifles, stormed the area and fought with security forces for nearly eight hours. The \_\_\_\_\_ killed three police officers and all five attackers.  
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9. British designer Mary Katrantzou is known for her \_\_\_\_\_ prints. Now an artist has reimagined them into vivid photographs.  
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**II. Sentence Completion: Choose the word that best completes the sentence (10%)**

11. Hard work can make \_\_\_\_\_ for a lack of intelligence.  
a. down                      b. in                      c. up                      d. out
12. A number of questions came \_\_\_\_\_ at the meeting.  
a. of                      b. X                      c. for                      d. up
13. The drowning man called \_\_\_\_\_ vain for help.  
a. in                      b. X                      c. at                      d. for
14. In \_\_\_\_\_ of his youth, the police have decided not to continue with the case against him.  
a. find                      b. view                      c. note                      d. think
15. Guess who I bumped \_\_\_\_\_ today? It was Michael!  
a. on                      b. into                      c. at                      d. for

**III. Cloze Test: Choose the best answer for each missing word or phrase in the following passages (20%)**

The Holkham Hebrew Bible, in a show of Jewish books and documents from the Bodleian Library in Oxford, now on view at the Jewish Museum in New York. The book was printed in Naples in 1491/2, by one Joshua Solomon Soncino. Not only is it \_\_\_\_\_ 16 \_\_\_\_\_, but it's poignant as well. The hand-colored decoration shows how fully its maker \_\_\_\_\_ 17 \_\_\_\_\_, and appreciative of, the Christian culture of the Italian Renaissance. (Identical decoration was used on a chivalric romance.) Yet at

this same time, Jews \_\_\_\_\_18\_\_\_\_\_ in vast numbers from Spain and were confined to ghettos in Italy. The \_\_\_\_\_19\_\_\_\_\_ and segregation made no cultural sense, but that didn't stop it \_\_\_\_\_20\_\_\_\_\_.

16. a. gorilline                      b. gorger                      c. gorgeously                      d. gorgeous  
17. a. was immersing                      b. immersing                      c. was immersed in                      d. immerse  
18. a. were being expelled                      b. expel                      c. was expelled                      d. was expelling  
19. a. persecute to                      b. persecution                      c. persecute                      d. persecuting  
20. a. from happening                      b. happen                      c. happened                      d. on happening

The foursome \_\_\_\_\_21\_\_\_\_\_ a fishing expedition over the holidays and were headed back to Italy to start the new year.

Missoni was expected to attend men's fashion week in Milan this week, but his plane disappeared from radar shortly \_\_\_\_\_22\_\_\_\_\_ from the island. At first glance, the \_\_\_\_\_23\_\_\_\_\_ seems like a standard air-to-sea accident, but the Missoni family is not yet ready to give up hope. "A plane \_\_\_\_\_24\_\_\_\_\_ in this way, on a short route, without leaving any trace," Missoni's 28-year-old son Ottavio told an Italian newspaper last week. "I \_\_\_\_\_25\_\_\_\_\_ that the least plausible reason is that they crashed into the water."

21. a. have                      b. had been on                      c. had been                      d. have been on  
22. a. of taking                      b. after taking                      c. after take off                      d. after taking off  
23. a. disappeared                      b. disappears                      c. disappearance                      d. disappear  
24. a. cannot vanish                      b. is to vanish                      c. should vanish                      d. could be vanished  
25. a. remain convinced                      b. convinced                      c. cannot convince                      d. am convince

**IV. Written Expression: Identify the underlined word or phrase that must be changed in order for the sentence to be correct (14%).**

26. a) The Los Angeles City Council voted b) unanimous last fall to c) build a new football stadium d) in the heart of downtown.  
27. Experts say a) sports teams rarely b) regulate cities the economic growth c) that is initially d) expected.  
28. 2012 has been a) an 'awful' year b) for c) major Wall Street companies, so what should we d) impact in 2013?  
29. a) Bonus and salaries b) have been cut at c) all of the big Wall Street d) firms.  
30. a) Instead just b) searching for content that already has its own page c) on Facebook—think fan pages, groups, or events—Graph Search will d) allow users to make much more specific searches.  
31. Google's a) big shift in search has been to move away from b) display links and letting users c) go on their way and answer more questions d) directly through information in the Google universe.  
32. a) It was an b) audaciously political speech, a statement of personal and c) partisan principle, d) rather the expected broad bipartisan outreach.

**V. Reading Comprehension: Choose the best answers to the following questions (36%)**

The word *euthanasia* is of Greek origin and literally means "a good death." The American Heritage Dictionary defines it as "the act of killing a person painlessly for reasons of mercy." Such killing can be done through active means, such as administering a lethal injection, or by passive means, such as withholding medical care or food and water.

In recent years in the United States, there have been numerous cases of active euthanasia in the news. They usually involve the deliberate killing of ill or incapacitated persons by relatives or friends who plead that they can no longer bear to see their loved ones suffer. Although such killings are a crime, the perpetrators are often dealt with leniently by our legal system, and the media usually portrays them as compassionate heroes who take personal risks to save another from unbearable suffering.

The seeming acceptance of active forms of euthanasia is alarming, but we face a bigger, more insidious threat from passive forms of euthanasia. Every year, in hospitals and nursing homes around the country, there are growing numbers of documented deaths caused by caregivers withholding life-sustaining care, including food and water, from vulnerable patients who cannot speak for themselves.

While it is illegal to kill someone directly, for example with a gun or knife, in many cases the law has put its stamp of approval on causing death by omitting needed care. Further, many states have "living will" laws designed to protect those who withhold treatment, and there have been numerous court rulings which have approved of patients being denied care and even starved and dehydrated to death.

Because such deaths occur quietly within the confines of hospitals and nursing homes, they can be kept hidden from the public. Most euthanasia victims are old or very ill, so their deaths might be attributed to a cause other than the denial of care that really killed them. Further, it is often relatives of the patient who request that care be withheld. In one court case, the court held that decisions to withhold life-sustaining care may be made not only by close family members but also by a number of

third parties, and that such decisions need not be reviewed by the judicial system if there is no disagreement between decision makers and medical staff. The court rules that a nursing home may not refuse to participate in the fatal withdrawal of food and water from an incompetent patient.

33. As used in paragraph 1, which is the best definition of “**lethal**”?

- a. proceeding in a gradual, subtle way
- b. referring to the effect or influence of one person, thing, or action
- c. sufficient to cause death
- d. referring to promptness or speed in doing something

34. As mentioned in paragraph 2, “the perpetrators are often dealt with leniently by our legal system” because

- a. the perpetrators are committing a crime
- b. the perpetrators are willing to stop their loved ones’ pain and bear the risk of being charged with killing
- c. the perpetrators are heroes who are filled with compassion and portrayed by the media
- d. the perpetrators involve the deliberate killing of ill or incapacitated persons

35. In paragraph 3, one faces “a bigger, more insidious threat from passive forms of euthanasia” since

- a. caregivers use active forms of euthanasia
- b. that caregivers withholding life-sustaining care is easier than using active forms of euthanasia
- c. food and water can involve in the deliberate killing of ill
- d. vulnerable patients accepts passive forms of euthanasia

36. In paragraph 4, “put its stamp of approval on” can be rewritten as

- a. have or express an unfavorable opinion about something
- b. have the same characteristics or qualities as
- c. be grateful for something
- d. officially agree to or accept as satisfactory

37. The author maintains that death by withholding care is

- A. largely confined to hospitals
- B. difficult to prove if prosecuted
- C. often requested by family members
- D. approved by living wills

38. The attitude of the author can best be described as

- a. objective
- b. partial
- c. passionate
- d. macaber

39. To conclude, euthanasia is a kind of

- a. Greek death
- b. dehydrated death
- c. merciful death
- d. unbearable suffering

In his thought-provoking work, *Philosophical Investigations*, Ludwig Wittgenstein uses an easily conceptualized scenario in an attempt to clarify some of the problems involved in thinking about the mind as something over and above the behaviors that it produces. Imagine, he says, that everyone has a small box in which they keep a beetle. No one is allowed to look in anyone else’s box, only in their own. Over time, people talk about what is in their boxes and the word “beetle” comes to stand for what is in everyone’s box.

Through this curious example, Wittgenstein attempts to point out that the beetle is very much like an individual’s mind; no one can know exactly what it is like to be another person or experience things from another’s perspective—look in someone else’s “box”—but it is generally assumed that the mental workings of other people’s minds are very similar to that of our own (everyone has a “beetle” which is more or less similar to everyone else’s). However, it does not really matter—he argues—what is in the box or whether everyone indeed has a beetle, since there is no way of checking or comparing. In a sense, the word “beetle”—if it is to have any sense or meaning—simply means “what is in the box”. From this point of view, the mind is simply “what is in the box”, or rather “what is in your head”.

Wittgenstein argues that although we cannot know what it is like to be someone else, to say that there must be a special mental entity called a mind that makes our experiences private, is wrong. His rationale is that he considers language to have meaning because of public usage. In other words, when we talk of having a mind—or a beetle—we are using a term that we have learned through conversation and public discourse (rooted in natural language). The word might be perceived differently in each of our minds, but we all agree that it signifies something; this allows us to develop language for talking about conceptualizations like color, mood, size and shape. Therefore, the word “mind” cannot be used to refer specifically to some entity outside of our individualized conception, since we cannot see into other people’s boxes.

40. According to the last paragraph, “the word “mind” cannot be used to refer specifically to some entity outside of our individualized conception” because

- a. there is no way of checking or comparing what is going on in another person’s mind
- b. Wittgenstein’s rationale is that a mind makes our experiences private
- c. one often looks in someone else’s “box”

- d. the word “mind” is an easily conceptualized scenario
41. Wittgenstein would most likely disagree with which of the following statements?
- A. It is impossible to know another person’s thoughts.  
 B. The mind is a special mental substance.  
 C. The color green may actually look different to everybody.  
 D. Words do not always accurately represent the things they symbolize.
42. As used in paragraph 3, which is the best definition or synonym for **discourse**?
- A. information given via the senses of sight or hearing  
 B. engagement  
 C. announcement  
 D. written or spoken communication
43. In paragraph 3, since a “word might be perceived differently in each of our minds”
- a. it is impossible for us to communicate  
 b. one develops conceptualizations of various objects  
 c. one has to study philosophy  
 d. imagination is important in regard to thinking
44. In the first paragraph, “thought-provoking” means
- a. inspiring                      b. frustrating                      c. puzzling                      d. applicable
45. “Beetle” refers to
- a. things that are put in boxes  
 b. everyone indeed has an insect in his head  
 c. the mind that is comparable to a box  
 d. Wittgenstein’s attempt to communication

SOME sage once quipped that writing about music is about as edifying—and evocative—as dancing about architecture. Certainly most music criticism has a lifeless quality, packed with adjectives yet tuneless on the page. Yet Alex Ross, a music critic for the *New Yorker*, manages to stand out. His gifts as a writer are all the more impressive given that his subject tends to be the most difficult music composed in the last century, from Gustav Mahler to Steve Reich.

“The Rest is Noise”, his best-selling 2007 book on the history of the 20th century through its music, is now being re-worked as a year-long music festival at the Southbank centre in London. Although Mr Ross was not involved in organising the festival, he will be giving four lectures on the history of 20th-century music.

Mr Ross spoke to *The Economist* about why he wrote this book in the first place, and why it is particularly hard to get contemporary audiences excited about modern music.

“It took you ten years to write “The Rest is Noise”. What was your motivation?”

“It emerged really from an obsession that I had with 20th-century music going back to my teenage years. At university I immersed myself in it very heavily with a radio show that I had. I was also studying literature and history—especially late-19th century and early-20th century period—so it all coalesced.”

“I grew up listening to classical music in the traditional sense, from Bach to Brahms. That was the world I was completely absorbed in. I really didn’t listen to any other kind of music aside from this repertory. So it was something of a shock to slowly realise that there was more to the story, and I was shocked and fascinated when my piano teacher in high school played works by Schoenberg, Berg and Bartok. I started making my way through them at the piano, and after an initial struggle, I really fell in love with the music. I was fascinated by the music itself, by the surrounding cultural and historical context, and wanted to figure out how it all fit together. So it seemed inevitable that this would be the subject.”

46. In the last paragraph, “coalesced” means
- a. merge                      b. distribute                      c. confuse                      d. discriminate
47. Most people think that music criticism is
- a. contributive                      b. useless                      c. harmful                      d. vivid
48. Alex Ross
- a. stands out playing music in a year-long music festival  
 b. organize music festival related to Mahler and Reich  
 c. gives lectures concerning the history of a certain period of music

d. studies literature and becomes a writer of novels

49. The **best** synonym for “immersed” is

a. fascinated            b. persuaded            c. extended            d. absorbed

50. According to Ross, music

a. is an independent subject that does not involve its context

b. usually has a great story

c. always brings one struggle when one tries to play the piano

d. is deeply related to culture and history