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UNIVERSITY OF GHANA

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## 2010-2011 SECOND SEMESTER

UGRC 150: Critical Thinking and Practical Reasoning

[30% continuous assessment—Mid term test]

INSTRUCTIONS: CHECK TO SEE THAT ALL YOUR QUESTION SHEETS are totally legible, contain no repetitions and no blank sheets.

*Once you Start Work you cannot get a new set of question sheets.*

**Put your ID on each sheet and return all sheets.**

**Answer ALL forty-five (45) questions on these sheets.**

**QUESTIONS 1-40 = 1 POINT EACH. QUESTIONS 41-45 = 4 POINTS EACH.**

**Follow the directions or you will forfeit marks.**

**CIRCLE only ONE letter for one answer to each question. Do NOT tick, shade, strike out or check your answer.**

1. Circle the letter corresponding to the statement that does NOT express a moral value judgment.
  - A. HIV/AIDS is God's way of punishing promiscuous people.
  - B. AIDS is a syndrome of chronic illness involving the breakdown of the immune system whose causes are not fully understood.
  - C. All citizens must be given access to free education.
  - D. All governments should preserve the economic rights of their own citizens, and not sacrifice their citizens' social welfare to the capital interests of foreigners.
  - E. All of the above are value judgments.
2. Circle the letter corresponding to the statement that does NOT express a moral value judgment.
  - A. Every planet must circle the sun in an elliptical orbit.
  - B. All salts must dissolve in water or some other liquid.
  - C. Every metal must expand when heated.
  - D. It ought to rain later today.
  - E. None of the above.

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3. Circle the one letter (A-E) which corresponds to the statement below which describes a law-like empirical generalisation, not a moral judgment or imperative.
- A. You ought to save money to buy your books and class materials.
  - B. All humanity must respect human life.
  - C. All mammals must have oxygen to live.
  - D. It is a serious violation of ethical standards to plagiarise on an examination.
  - E. All the above express imperatives or moral judgments.
4. Which of the following quotes is a factual statement rather than a statement of opinion or value judgment?
- A. "The vicious and unprovoked attack by Hezbollah on Israel Armed Forces last week might have started a third World."—*Financial Times*
  - B. "Too many innocent people have died in the unprecedented aggression on Palestinians over these endless two weeks."—*UN Secretary General*.
  - C. "1,354 people have died in the 40 air strikes over the last two weeks."—*The Catholic Herald*
  - D. "Iraq has turned from a brutal dictatorship and sworn enemy of the United States into the only true Arab democracy in the centre of the Middle East and a friend of America."—G.W. Bush
  - E. None of the above quotes expresses a factual statement.
5. Which of the following departments all fall only under the Humanities?
- A. linguistics, performing arts, philosophy and classics, modern languages
  - B. civil engineering, Ghanaian languages, human biology, nursing
  - C. history, agriculture, law, study of religions
  - D. English, social work, performing arts, political science
  - E. None of the alternatives above includes only Humanities disciplines
6. What kind of linguistic utterance (speech act) is illustrated by the following sentence in italics?
- Basic, free, compulsory, universal education is a legal entitlement to Chapter 5 of the Ghanaian Constitution.***
- A. Value judgment (moral)
  - B. Law-like hypothesis
  - C. Definition
  - D. Factual statement
  - E. Emotive utterance



7. Identify one of the following which clearly is *not* an imperative.
- A. Is it true that you have more cousins than I do?
  - B. This house is the most magnificent example of the Tudor period in the province.
  - C. The chief is the most important person in this region; he is also the richest and the most resourceful.
  - D. It is an unfortunate tendency in this region to contest the stool over generations ceaselessly in the way that these two families have been doing; it's disgraceful.
  - E. None of these are imperatives.
8. Identify which of the following is a genuine *interrogative*.
- A. Last year's Miss Ghana.
  - B. Meet Miss Ghana, a graduate of KNUST.
  - C. How can you ask such a question? How rude can you be?
  - D. When are we supposed to graduate?
  - E. None of these are genuine interrogatives.
9. Consider which of the following is a *sentence fragment*.
- A. Can't you keep quiet?
  - B. Is your cousin a graduate of KNUST or of Legon?
  - C. Don't you just wish you could own such a car as that!
  - D. Isn't Miss Ghana 2009 the most beautiful young woman anyone has ever seen?!
  - E. 31<sup>st</sup> December Women's Movement
10. Of the following items, identify which best illustrates an *emotive expression*:
- A. Is this the right place to register for the examination?
  - B. Go now; otherwise you will be late.
  - C. Gracious God, look at what you are doing; are you mad?
  - D. Light soup.
  - E. None of the alternatives illustrates an emotive expression.

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In **questions 11-15** circle one letter that corresponds to the best way of categorizing the statement in *italics*.

11. *The global media portrays these people as helpless does a great disservice to the country.*

- (A) Factual judgment
- (B) Moral value judgment
- (C) True by definition
- (D) Emotive expression
- (E) Sentence fragment

12. *'DDT' is an abbreviation for dichlorodiphenyltrichloroethane, a white chlorinated hydrocarbon used as an insecticide.*

- (A) Factual judgment
- (B) Moral value judgment
- (C) True by definition
- (D) Emotive expression
- (E) Sentence fragment

13. *The substance in this beaker is contaminated with DDT, and the potency is sufficient to kill a child.*

- (A) Factual judgment
- (B) Moral value judgment
- (C) True by definition
- (D) Emotive expression
- (E) Sentence fragment

14. *This is so easy! I'm actually having fun taking this exam!*

- (A) Factual judgment
- (B) Moral value judgment
- (C) True by definition
- (D) Emotive expression
- (E) Sentence fragment

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15. *All son-in-laws have (living or dead) father-in-laws.*
- (A) Factual judgment
  - (B) Value judgment
  - (C) True by definition
  - (D) Emotive expression
  - (E) Sentence fragment
16. Identify the statement which is *not* a definition by circling the corresponding letter.
- A. Genocide is any organised intentional effort to eliminate an entire group or community.
  - B. A funeral is the ceremony accompanying a burial, cremation, or other respectful elimination of a corpse, usually human.
  - C. Lagos is not the capitol of Nigeria but it is the country's most populous city.
  - D. A capital offence is any crime which is punishable by the death penalty, or in some legislatures, by life imprisonment.
  - E. A fruit is the seed-carrying portion of most plant species.
17. Identify the alternative which gives the best example of an *ostensive* definition.
- A. Objects that are moving close to the speed of light do not obey Newton's laws of motion.
  - B. Dance is central to the moral fabric of a traditional Akan community's life.
  - C. Any substance contaminated with 5 mg. of DDT is lethal if ingested.
  - D. The most toxic pesticide used in recent years in this part of the country is DDT.
  - E. See the people over there dancing—that dance is called agbadza.
18. Which of the following appears to be a definition but in fact is a moral value judgment?
- A. The paramount chief of this region had the largest and most expensive funeral that the village has seen in a decade.
  - B. Lagos is not the capitol of Nigeria but is the country's most populous city.
  - C. Terrorism is the greatest evil action recognised by mankind.
  - D. A fruit is the seed-carrying portion of most plant species.
  - E. E.T. Mensah was a great highlife musician in Accra in the mid-20<sup>th</sup> century.



19. Circle the letter corresponding to the statement that best demonstrates an *operational* definition.

- A. 'Abortion' is the most evil kind of murder possible.
- B. To say that a statement is 'unfalsifiable' means it is testable, that is, empty of empirical content, since it is unable to be false.
- C. A 'tautology' is useless in the scientific pursuit of truth, since however it is interpreted, it is always true; it is said to be empty of empirical content because it could under no conditions be discovered to be false because of the way the world actually is—it is unfalsifiable, or untestable. A tautology's being true does not depend on anything in the world so it cannot provide any information about anything in particular concerning the way the world is.
- D. A 'roux' is a classic in French cookery, made by heating approximately a two-to-one ratio of butter to flour in a saucepan, stirring until the mixture becomes a paste, adding double the amount of milk and stirring over a low heat until the mixture is thick and smooth, then adding slowly any vegetable or meat broth to thin the mixture into a smooth batter, adding herbs and spices over a low heat while stirring constantly. It is served hot as a sauce or gravy to be poured over cooked fish, poultry, pork, beef, wild game, pasta, vegetables, legumes, or any protein that has been roasted, grilled, poached or sautéed. It is also a common base for making cream soups, stews, ragus, curries, and casseroles of all kinds.
- E. A 'newton' is a unit of force, acting for one second on a mass of one kilogram, giving a velocity of one meter per second, and a necessary measurement in classical mechanics, solid state physics and thermodynamics.

**Directions for questions 20-24: Each italicized passage is a set of premises. Choose the best alternative to conclude the argument deductively.**

20. *Citrus fruits contain vitamin C. Oranges are citrus fruits, and so are pineapples. Tomatoes contain as much vitamin C as oranges do. Another name for vitamin C is ascorbic acid. Therefore:*

- A. Citrus fruits and tomatoes contain ascorbic acid.
- B. Tomatoes contain more ascorbic acid than do oranges and pineapples.
- C. The only foods containing ascorbic acid are citrus fruits.
- D. Oranges and pineapples contain ascorbic acid but tomatoes do not.
- E. None of the above follows deductively from the given premises.

21. *In the early 1970s, anyone playing reggae music in Jamaica, where it originated, was likely to be arrested. Only political and religious revolutionaries played reggae music in those days. Bob Marley started playing reggae music in Jamaica in the 1970s. We can conclude that:*

- A. Bob Marley was a commercial businessman, not a revolutionary, in the 1970s.
- B. Bob Marley was a revolutionary in Jamaica, and was likely to be arrested in the 1970s.
- C. Bob Marley was too famous to be a revolutionary, and so he could never be arrested.
- D. Bob Marley was never in Jamaica.
- E. None of the above follows deductively from the given premises.

23. *If someone is aware of current events then he or she is able to make an informed decision as a voter. Anyone who reads newspapers or listens to the news on the radio is aware of current events. Unless voters are making informed decisions, elections cannot be effective. Therefore:*

- A. No elections in Africa are effective.
- B. In order for elections to be effective, voters must be able to read and write English fluently.
- C. In order for elections to be effective, voters must be aware of current events.
- D. Without effective elections, citizens cannot read and cannot afford radios.
- E. None of the above follows deductively from the given premises.

24. *Either the new patent protection laws will be introduced in Africa or they will not. If the new patent laws are introduced in Africa then the price of antibiotics definitely will increase. If the prices of these drugs increase, then the ability to fight contagious disease will be undermined all over the continent. If the ability to fight contagious disease is undermined, then mortality rates in African countries will increase. Therefore:*

- A. This proves that the mortality rates definitely will increase in Africa.
- B. The WTO does not care about African lives, because WTO supports the new patent laws.
- C. If the patent laws on drugs are introduced in Africa, then mortality rates will also increase.
- D. If the patent laws on drugs are not introduced, then drugs will be of lower quality in Africa.
- E. None of the above follows deductively from the given premises.

**Directions for questions 25-28:** Each passage represents a set of premises or an argument. Choose the best rejoinder by circling the corresponding letter.

25. **All As are Cs. All Bs are Cs. Therefore all As are Bs.**

- A. This is a valid deductive argument pattern.
- B. The correct conclusion is that all Cs are As.
- C. The conclusion given does not deductively follow from the premises.
- D. This pattern is called hypothetical syllogism.
- E. This pattern is called tollens hypothetico.

26. **If that man is an A then he must also have quality B. But that man does not have quality B. So he cannot be an A.**

- A. This is a valid deductive argument pattern.
- B. This is an invalid argument pattern.
- C. That man also had quality C which means he cannot be an A.
- D. This pattern is called hypothetical syllogism.
- E. None of the above.

A  
all oranges are fruits  
and banana is a fruit



27. **Either X is false or Y is true, there is no alternative. If X is false then Z must also be false. It was discovered that Y cannot be true.**
- A. So Z must be false.
  - B. The correct conclusion is that Z must be true.
  - C. X must be true.
  - D. The correct conclusion is that Z might be true or it might be false.
  - E. None of the above.
28. All mammals have lungs. All creatures with lungs need oxygen. Therefore:
- A. Anything needing oxygen is a mammal.
  - B. All creatures with lungs are mammals.
  - C. Any creature that needs oxygen has lungs.
  - D. Not all creatures with lungs are mammals.
  - E. All mammals need oxygen.
29. Which of the following departments fall under the Humanities?
- A. English, performing arts, philosophy, modern languages
  - B. history, English, linguistics, psychology
  - C. history, psychology, political science, religions ✓
  - D. English, sociology, drama, linguistics
  - E. None of the alternatives above includes only Humanities disciplines
30. Violation of the following sorts of law can attract some kind of penalty or reprobation except:
- A. scientific law
  - B. criminal law
  - C. customary law
  - D. constitutional law
  - E. moral law
31. Which type of law is not dependent upon social observance or enforcement by a governing agency in order to remain effective?
- A. mathematical law
  - B. customary law ✓
  - C. commercial law
  - D. intestate law
  - E. criminal law



32. Which one of the following subdivisions of a university is *not* designed to train students for certified practice in a specific profession?

- A. Faculty of Law
- B. Medical School
- C. Faculty of Arts
- D. Business School
- E. School of Nursing

For questions 33-35 study this list of terms and answer the questions with respect to this list, using the letters corresponding to the terms on the list as your reference:

- |                  |                         |
|------------------|-------------------------|
| A. Masculinity   | L. Responsible          |
| B. Solubility    | M. Acidic               |
| C. Sedimentary   | N. Aggressive behaviour |
| D. Efficiency    | O. Perseverance         |
| E. Stubbornness  | P. Stubbornness         |
| F. Corruption    | Q. Hyperactive          |
| G. Bilingualism  | R. Atomic weight        |
| H. Impulsiveness | S. Frugality            |
| I. Obesity       | T. Fairness             |
| J. Contagious    | U. Selfishness          |
| K. Immaturity    |                         |

33. Circle one only of (I)-(IV) below which contains only *essentially contestable* words.

(I) A, C, R, S

(II) D, E, H, T

(III) F, K, Q, U

(IV) B, C, M, R

(V) None of (I-IV) above contains only *essentially contestable* words

34. Choose the collection (I-IV) which contains only descriptive terms applied in the physical sciences.

(I) A, C, M, S

(II) B, C, G, M

(III) G, E, R, T

(IV) H, K, N, S

(V) none of the above contains only descriptive terms applied in the physical sciences.

35. Choose the alternative (I-IV) that lists properties which would still have application even if human beings did not exist.

- (I) B, C, L, S
- (II) B, C, M, R
- (III) K, S, T, U
- (IV) H, K, N, S
- (V) none of the alternatives list properties that would still have application if human beings did not exist.

For questions 36-40, choose the alternative that best describes the italicized passage.

36. *If someone hits you on the right cheek, turn and offer him your left. For the tree that stands tall in the forest will be cut down for timber, while the gnarled and crooked tree that bends in the wind will be left alone and will outlive all the others. The wise man rarely speaks, while the fool never stops giving advice. Remember that three things are the greatest of all: faith, hope and love, but the greatest of these is love.*
- A. An expression of syllogistic fallacy
  - B. A deductive argument containing premises supporting a conclusion
  - C. An inductive hypothetical syllogism applied in theological discourse
  - D. A narrative reporting a time-ordered sequence of past events
  - E. A list of proverbial advice and aphorisms
37. *There is a big football match today and Kwame always watches the matches whenever he can. But this is the only day Kwame is able to study in the library. So Kwame will either be watching the match or he must be in the library. But he is definitely not in the library; his mates saw him leave there two hours ago. So you will find him watching the match.*
- A. An expression of syllogistic fallacy
  - B. A deductive argument containing premises supporting a conclusion
  - C. An inductive hypothetical syllogism applied in theological discourse
  - D. A narrative reporting a time-ordered sequence of past events
  - E. A list of proverbial advice and aphorisms
38. Circle the letter that corresponds to the best illustrations of a *circular definition*.
- A. This object is a cube.
  - B. Hypertension is blood pressure that exceeds a rate of 140 systolic and 90 diastolic.
  - C. Sociology is the study of the works of Max Weber.
  - D. To be courageous is to act with courage.
  - E. Hate is an emotional response.



39. Circle the letter that corresponds to the best illustration of a *personal opinion* or a *value judgment* disguised as a *definition*.

- A. A moral judgment is a statement that describes the way people ought to behave or the way the world ought to be, rather than describing the way things are in fact.
- B. English literary criticism is the study of the works of William Shakespeare.
- C. Jazz music is a genre that developed chiefly in the United States from musical forms that migrated from Africa with the trans Atlantic slave trade.
- D. Religion is the opiate of the masses.
- E. A definition is a statement that describes the correct use of a word.

40. Circle the letter corresponding to the illustration of a definition that is *too narrow*.

- A. Love is an emotional response.
- B. Psychology is the study of the works of Sigmund Freud.
- C. Reggae music is a genre that began in Jamaica as a form of political and social protest in the second half of the 20<sup>th</sup> century.
- D. Religion is the opiate of the masses.
- E. To be courageous is to act with courage.

**Directions for Question 41:** The following passages exhibit either a *narrative* or a *set of instructions* or a *polemical expression of opinion* or an *argument*. Circle the letter that corresponds to a passage that illustrates an **ARGUMENT**.

- A. *I hate running these lab tests. Every time I am exposed to the diseased plants I fall ill. I'm sure they hate me, or they are punishing me or something; it's disgusting how I get sick so often. Once I had a bad runny stomach and went to the toilet so often. Instead of asking me if I was working in a septic environment that was making me sick, I was sent straight to hospital and my pay check was cut because of time lost from work.*
- B. *All the students had their specimens that they had collected the field trip and it was time to go home. They had to wait for the bus. After waiting half an hour it didn't come. So someone suggested hiring a taxi. Then it was realised this would be too expensive, because of the long distance. So then someone suggested calling the bus station to see what was the matter. But they could not get the phone number. It took an hour to try to make the call, to no avail. Finally the bus came along, but it was two and a half hours late. The students were all complaining, and some even asked to get their money refunded for half of the cost of the trip. Later the bus company refused; they claimed the bus had broken down and was delayed by servicing. The students decided to take another bus company the next time they planned a field trip. The following month the field trip was scheduled and the transport came and left with them on time.*



**Alternatives for question 41 continued**

- C. *Sexual infidelity is prevalent these days, sad as this is to say. Even though people know better, for instance, it is said that they often have sex outside their marriage. No surveys have been conducted, but it is accepted as true that even men with several wives will have sex with women they have not married. Some prefer this practice to sex when it is legal. Clearly infidelity is abhorrent in many respects, but the traditional priests and the churches cannot do anything about it. What should be done? Infidelity is truly a great blight on society!*
- D. *The World Trade Organisation talks can proceed productively provided world trade can be made fair for all farmers. But world trade will be fair for all farmers only if the price for selling farm products on the world market is not reduced artificially. Farm product prices are reduced artificially on the world market now because big American businesses in farming receive huge subsidies from the US government. This allows them to grow an excess of cotton and sugar, which is then dumped on the world market. The US government will not stop subsidizing the big American farming businesses. So it seems clear that the WTO talks cannot proceed productively.*
- E. *A cold (catarrh) or flu (influenza) is an infection caused by a virus or it is a bacterial infection. There is no cure for it, although there are many effective antibiotics on the market. If the flu was caused by a known bacterium, with a known antibiotic, then there would be a cure for it. So the flu must be caused by a virus. A flue infection lasts no more than two weeks. If one doesn't get rid of the symptoms in two weeks, then the viral infection might have turned into a bacterial infection, such as pneumonia. If you do not treat pneumonia, you can die of it. To treat pneumonia, you need a doctor. So if one doesn't get rid of cold symptoms in more than two weeks, one should see a doctor.*

**Question 42. Which of the following is *not* a good argument? Circle the correct letter.**

- A. *The politician wants votes. You can see he is corrupt by the way he treats his wife. My wife and his wife are good friends and believe you me, this is not a man you can trust with your money. So don't trust any politician—this man is clearly one of them, and he is a rogue from the day he was born.*
- B. *Anytime plants have been sprayed with the chemical insecticide NOPEST according to the instructions, the leaves grow twice in number compared to plants that are not sprayed with the same insecticide. So we conclude that this insecticide not only kills pests but promotes leafy growth in plants properly treated with the chemical.*
- C. *In a sample of 20 patients in London who ate meat infected with the lethal bacterium, and who contracted the human equivalent of mad cow disease, 15 of the patients died of eating the infected meat. The study was repeated in another major city on a different continent, and a sample of Asia. The study shows that 75% of people contracting the human equivalent of mad cow disease will die of eating infected meat.*
- D. *There is a big football match today and Kwame always watches the matches whenever he can. But this is the only day Kwame is able to do his laundry. So Kwame will either be watching the match or he must be doing his laundry. He is not doing his laundry; so you will find him watching the match.*
- E. *All of the passages A-D above constitute good arguments.*



**Background information for question 43:** We say that a *verbal dispute* is a disagreement that would end if the parties to the debate all *stipulated* a definition. This shows that the *only* point of difference between them is literally the way they are using some word. But when a controversy carries underlying issues that would not be settled by the way a word is used, because there are other differences of opinion between the parties in conflict, then we say that they are involved in a *substantive disagreement*.

**Directions for question 43:** Read the following passages and compare their contents. Choose the alternative which exhibits a conversation that involves a strictly **VERBAL DISPUTE**.

- A. Kwame: Did you meet my friend Roland? He is a Muslim just like you. He was ordained in the United States into the Nation of Islam.  
Kofi: You mean that man we saw at the mosque today? He is not a real Muslim because he does not fast during Ramadan. How can you call him a Muslim if he is not obeying the laws of Islam? Fasting is required by the Qur'an during Ramadan.  
Kwame: But lots of people who fast during the day at work go home and drink alcohol all night and fornicate during the rest of the year. Aren't they Muslims?  
Kofi: No; that is exactly my point. That sort of behaviour is not what the label Muslim is meant to denote. Anybody knows that.
- B. Ama: They say the Head of the United States is not really the President since his father was Kenyan and you have to be an American to run for president of the United States.  
Patience: But doesn't he have a US passport? Isn't he a US citizen? He was born in Hawaii, wasn't he?  
Ama: Yes but you should be a real American to be president, don't you think? Would you want someone who is not Ghanaian running this country? Look at what happened in the 1990s. The president then was half-Scottish, and look at all the trouble that there was in those days. No, to be our leader the man should be a real Ghanaian. I don't care what his passport says. And Americans deserve the same. If they had a real American as president they wouldn't have all these problems.
- C. Kofi: Did you meet your TA yet?  
Kwame: I can't. I don't have a TA.  
Kofi: What do you mean? The one who runs the tutorial, Mr. Appiah; he's your TA.  
Kwame: No he's not. He is a National Serviceman. So he can't be a TA.  
Kofi: Yes he is. He's assisting the teacher in the course. So he's a Teaching Assistant. That's what 'TA' stands for.
- D. Kwadwo – Those army personnel are helping our citizens because their presence maintains a peaceful and secure environment, thanks to the sacrifices they are making in their effective peace-enforcement strategies. They are protecting us.  
Ato – Those soldiers are bullying us and they have been given orders to target civilian rebels who are fighting a guerrilla war, so the soldiers pose a threat to all of us. They can't tell who is a rebel and who is an innocent. Their presence increases the danger of moving where we want to go in the city. The soldiers have robbed us of our freedom.  
Kwaku – But aren't you guys both talking about those same armed men in uniform over there? That is obvious. So what are you arguing about?
- E. All of the above passages exhibit strictly verbal disputes.



**Question 44. Circle the letter corresponding to the one alternative which best captures the nature of the passage in italics.**

*In 1994 a special Commando Squad came to IPS in Madina and began firing at students indiscriminately while they were in their rooms. One young woman was shot through her closed door fifteen times while she was cooking rice on a hotplate. A few years later in September 2003, fifteen Commonwealth Hall students took part in a destructive mob action because they were not happy with their water supply. They stormed the Vice-Chancellor's Lodge, assaulted the guard on duty and broke the tap on the standing pipe outside the house. Police were called on to the campus to stop the Vandals from destroying more property and assaulting other authorized personnel. In March 2006, non registered students came to the Legon campus and helped foment a rampage to express dissatisfaction after the election of the SRC Executives for the coming academic year. And again the police were called to come and patrol the campus in order to prevent further vandalism and related criminal activity. Earlier in 2007, threats were publicized, signed in blood, warning that if students did not get their preferred residence on campus there would be poisonings and acid attacks against university authorities and their families, and disruption of examinations. Some of these threats were carried out. The first day of examinations, some people had broken in secretly and dirtied the examination venues with human faeces. Police came and kept 24 hour watch throughout the examination period last semester.*

- A. A good argument containing premises supporting a conclusion
- B. A bad argument where the premises only give a motive but not a good logical reason for believing the conclusion is true.
- C. A list of instructions, directions, or proverbial advice
- D. A rhetorical polemic which expresses a strong feeling or opinion
- E. A narrative reporting and commenting upon a time-ordered sequence of past events

**45.** *On a simplistic theory of modernisation, towns and cities grow big because they are centres of industrial productivity. If all economic development depended upon industrial manufacturing, then Ghana would have to copy the European industrialization model of capital accumulation in order to increase its GDP. But in Northern Ghana and the forest belt, between the 8<sup>th</sup> and 15<sup>th</sup> centuries AD, well established state structures developed at points all along the long distance trade routes to control caravans involved in commerce, protecting and administrating the Trans Saharan trade from Egypt to Morocco. In Asia during the late 20<sup>th</sup> century, India increased its GDP rapidly by becoming a communications service centre for IT users worldwide. So it is clear that there are different ways for Sub Saharan nations to build up their economic prosperity; they do not need to copy the European industrial model.*

- A. A good inductive argument containing evidence that supports the conclusion
- B. A bad argument where the premises cite misleading stereotypes which are not sufficient evidence to support the conclusion
- C. A list of instructions, directions, or proverbial advice
- D. A rhetorical polemic which expresses a strong feeling or opinion
- E. A narrative reporting a time-ordered sequence of past events

**END**