

D 135

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2005.

Second Semester

(Common to All Branches Except Marine Engineering)

HS 1151 — ENGLISH — II

(Regulations 2004)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Match the words in column 'A' with their meanings in column 'B' : (4 × $\frac{1}{2}$ = 2)

A	B
(a) Infrastructure	(i) required by written law or legislation
(b) Statutory	(ii) native
(c) Indology	(iii) the system of services forming a basis
(d) Indigenous	(iv) the study of India.

2. Fill in the blanks with appropriate prepositions : (4 × $\frac{1}{2}$ = 2)

The energy value of food is usually measured _____ calories. The number _____ calories one uses _____ any one moment normally depends _____ the activity one does.

3. Fill in the gaps in the following table with appropriate forms of the words : (8 × $\frac{1}{4}$ = 2)

eg. : <u>verb</u>	<u>noun</u>	<u>adjectives</u>
Communicate	Communication	Communicative
(a) Protect _____.		
(b) _____ productive.		
(c) _____ reaction _____.		
(d) Attract _____.		

4. Add suitable prefixes to the root words to give the meanings indicated : (4 × $\frac{1}{2}$ = 2)
- (a) _____ : zero less than zero.
- (b) _____ : tension abnormal blood pressure.
- (c) _____ : sensitive excessively or abnormally sensitive
- (d) _____ : structure subordinate or underlying parts on which something is built.

5. Give two examples for each of the suffixes given below : (8 × $\frac{1}{4}$ = 2)
- (a) —ment (b) —tion (c) —able (d) —ence.

6. Use the appropriate tense forms of the verbs given in brackets and complete the text : (4 × $\frac{1}{2}$ = 2)

In 1950 and in 1970 most of America's energy _____ (come) from coal, oil and natural gas. But in this twenty-year-period, the amount _____ (produce) from coal _____ (fall) from 38% to 18.5%, while oil _____ (rise) from 36% to 44%.

7. Rewrite the following by replacing the numerical expressions in the position of an adjective before a noun, as shown in the given example : (4 × $\frac{1}{2}$ = 2)

e.g. : A pipe of 3 feet length.

Ans : A 3-foot pipe.

- (a) A drive for 8 hours.
- (b) A committee of 6 members.
- (c) A project proposal for 10 crores.
- (d) An engine with 100 cc power.
8. Write sentences expressing 'purpose' by using the hints given below. An example has been worked out for you : (4 × $\frac{1}{2}$ = 2)

e.g. : Aerial : receive broadcast signal.

Ans : An aerial is used to receive broadcast signals.

The answers to these questions have been found in modern measurements which indicate that the ocean bottom must be in motion. It is moving at a speed of from about one-half to six inches a year, and it seems to be doing so in a manner that suggests that the continents also are moving. Apparently the continents can be thought of as floating in a "sea" of basalt (that is, the ocean bottom rocks).

Scientists think that many millions of years ago, all the continents were joined together in two huge land masses, called Laurasia and Gondwanaland. Later on, in geological time, Laurasia split into North America, Europe, and Asia, while South America, Africa, Antarctica, and Australia were formed from Gondwanaland. But the final picture is apparently not complete, for the sea bottom is still moving and evidently the continents are moving too. Where they will be a few million years from now, scientists can only guess.

As far as oceanographers can now tell, the reason for this movement is that the rock beneath the earth's crust (the mantle) is a somewhat fluid substance. It will move in much the same manner as water, but of course much more slowly. With the earth being warmer in the interior, convective currents or vertical heat motions are set up in much the same way that air in a room moves from the floor to the ceiling when an electric heater is placed on the floor. Of course, when the moving mantle material reaches the underside of the crustal rocks (the ocean bottom), it spreads out to the sides. It is this horizontal motion that causes the ocean bottom and the continents to move.

Eventually, the mantle material must return to the interior of the earth, because any such material that comes from there must be replaced. In this manner, the older rocks on the underside of the oceanic crust are dragged down into the earth, which explains why the older rocks cannot be found. Similarly, the older sediments are also carried away as they build up. Measurements have been made that indicate that the rocks very close to the mid-Atlantic ridge in the North Atlantic Ocean have very recently risen from the interior of the earth, while at points further away from the mid-Atlantic ridge, it was found that the age of the rocks increased. Thus, by noting the rock age measurements and the distance between samples, it is possible for scientists to calculate the rate at which the sea floor is spreading - which works out to be between one-half and six inches per year.

- (i) State whether the following statements are 'True' or 'False' : (6 × 1 = 6)
- (1) The sedimentary rocks that exist on the ocean bottom are similar to sedimentary rocks found on the continents.
 - (2) Sedimentary rocks found on the continents are older to sedimentary rocks found on the ocean bottom.
 - (3) Geologists do wonder about the whereabouts of the sedimentary rocks.
 - (4) The overall layer of the sedimentary rocks remains very thick.
 - (5) Laurasia and Gondwanaland were two huge land masses.
 - (6) Scientist can say for sure the direction in which the continents are moving.
- (ii) Read the passage carefully and then choose the response which best reflects the meaning of the text : (5 × 1 = 5)
- (1) The sedimentary rocks found on the ocean bottom are
 - (A) 100 million years older
 - (B) 200 million years older
 - (C) more than 200 million years older
 - (D) 50 million years older.
 - (2) The main question that remains in the minds of the geologists is
 - (A) the depth of the ocean bottom
 - (B) the nature of the older rocks
 - (C) the whereabouts of older rocks
 - (D) the formation of new rocks.
 - (3) The strange feature about the sedimentary rocks is
 - (A) that the thickness of the overall layer remains thin
 - (B) that the mud layers keep accumulating
 - (C) that the ocean bottom is fully covered with them
 - (D) that they are becoming bigger in size.

- (4) The movement of continents occurs because
- (A) the earth's crust is a semi-solid substance
 - (B) the earth's crust is in a somewhat fluid state
 - (C) the earth's crust is full of water
 - (D) the earth's crust is full of loose sand.
- (5) The older rocks cannot be found on the ocean floor because
- (A) they are dragged down
 - (B) they are crushed because of underground pressure
 - (C) they get melted
 - (D) they are pushed to different places due to water currents.

(iii) Choose the definition which best fits the following words or phrases as they are used in the text : (5 × 1 = 5)

- (1) Dragged
- (A) pull something along
 - (B) talk about
 - (C) move slowly
 - (D) damage.
- (2) Eventually
- (A) finally
 - (B) simultaneously
 - (C) probably
 - (D) possibly.

- (3) Spreading
 - (A) reaching out
 - (B) moving to all sides
 - (C) covering more area
 - (D) telling a lot of people.
- (4) Build up
 - (A) grow up
 - (B) get accumulated
 - (C) become old
 - (D) increase in number.
- (5) Apparently
 - (A) clearly
 - (B) regularly
 - (C) undoubtedly
 - (D) supposedly.

12. (a) Write a letter of application along with the bio-data for the post of Quality Control Manager in a reputed company.

Or

(b) Write a letter to the Editor of a newspaper complaining about poor civic conditions (bad roads, garbage, street lamps) in your locality. Your letter should also give solutions to each of the problems discussed.

13. (a) You and your family members are going on a holiday to a hill resort. You will be away from your home for 15 days. Prepare a check list of eight most important items related to the safety of your house, which you could use before undertaking the journey. Give a suitable title to your check list.

Or

(b) You are the Safety Engineer of a tyre manufacturing company. A major fire accident has taken place in the factory and 12 workers have sustained severe burnt injuries. The Managing Director of the company has asked you to prepare a detailed report on the accident, together with your recommendations for averting similar accidents in the future. Your report should not exceed 250–300 words.

14. (a) Prepare a list of eight instructions that must be followed when operating a computer.

Or

- (b) Write eight instructions you would like to give to your who wishes to apply for an engineering degree in a university abroad.

15. (a) Write two paragraphs not exceeding 200 words on the ways in which water, the valuable natural resource can be used and preserved. (200 words)

Or

- (b) Discuss in two paragraphs whether television promotes education or entertainment or both. (200 words)
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