1st Semester Diploma Engineering Exam., 2016

ENGLISH COMMUNICATION AND ELEMENTS OF INFORMATION TECHNOLOGY

Paper : EIT-101

Full Marks : 70

Time : 3 hours

The figures in the margin indicate full marks for the questions

FIRST HALF

Answer Question No. **1** and *any* **three** from the rest

1. Rewrite the following sentences as directed (any *eight*) : 1×8=8

(a) The man died by accident.

(Correct the sentence)

(b) Oh, for the wings of a dove!

(Make it an assertive sentence)

(c) Waste not, want not.

(Turn it into a simple sentence)

(d) Air is not as fast as mind.
(Turn it into a comparative degree)

(e) They have fought a good fight.
(Convert it into a passive voice)

(f) I have no objection _____ his proposal.
(Use appropriate preposition)

(g) He admits his fault.
(Turn it into a interrogative sentence)

(h) The baby heard the voice. He woke up.
(Join the sentences using '-ing')

(i) Soma will pass. It is sure.
(Join the sentences using adverbials)

(j) Jute is a rough fibre.
(Convert it into a negative sentence)

2. (a) Read the passage given below and shorten it to a note form : 6

Patriotism is love for one's country. It is a noble sentiment of human heart. It is purely selfless. It prompts one to sacrifice one's all for the good of the country. To a patriot, mother and motherhood are superior to heaven. He always thinks of the betterment of his fellowmen. He tries his best to lessen

their sufferings and lighten their burdens. He is ever ready to lay down his life for the cause of the country. He smiles when his country smiles. He sheds tears when his country suffers. Name and fame, wealth or riches, power and pelf never lures him. A true patriot of this sort sets an ideal for others to follow. He inspires all countrymen to think and acts in the interest of the nation. But patriotism should never hurt humanity at large. To a real patriot, the world is his home.

(b) Change the form of speech : 1×3=3

(i) He said to his master, "Forgive me, Sir."

(ii) She said, "My God! I am ruined."

(iii) Mira said, "I hope I shall get the money."

3. (a) Rearrange the following sentences to make a coherent paragraph. Do not write the numbers. Copy the sentences in the right order to make a coherent paragraph : 6

(i) There are so many things to do that I am never bored, I swim and fish in the river.

(ii) I also love the food that I cook over my open wood fire.

(iii) During my summer holidays, I love camping by the river in the woods near my grandmother's home.

(iv) The slightly smoky meat, black on the outside and red in the middle, is delicious, the fish that I catch in the nearby stream just a few minutes before I cook them would be good enough for a king.

(v) Then after two weeks of relaxation, good food and good exercise, I return to town refreshed, healthy and ready to begin work again.

(vi) I climb trees when I feel energetic and lie in the sun when I feel lazy.

(b) Find out the topic sentences from the texts given below : 1½+1½=3

(i) A university cafeteria should be able to provide meals at a lower cost than private restaurants. The students serve themselves and, when they have finished, take their dirty dishes back to a special table. In this way the cost of employing staff is reduced because there is no need for waiters. As the same

number of students eat in the cafeteria each day, the manager can calculate the exact amount of food to buy and very little is wasted thus reducing the cost of the meals.

(ii) As we look at real glaciers among the mountains, we cannot see them move. But scientists have proved that they do and even have measured their speed. Small glaciers in the rockies travel eight to fifteen inches per day, but big ones among mountains of Alaska move four to twelve feet. The speediest glacier of all is one that moves down the rocky coast of Greenland at a rate of fifty to seventy feet in a day.

4. Study the following points and develop three paragraphs on the topic : 3+3+3=9

"Science—Its uses and abuses"

Introduction :

Utility of science in everyday life

Uses of science :

Scientific inventions and their uses in industry, commerce, communication and medicine—relief to the suffering humanity

Abuses of science :

Science has created deadly weapons for war—conclusion

5. You are the class representative of 1st Semester Diploma Engineering of your branch. Some of the students are regularly insisting you to inform the Principal about the lack of transportation facility available for the students who come from distant places to the institute. When informed, your Principal has asked you to write an investigative report exploring the existing condition and problems faced by the students and also suggest some measures for solution. You have to conduct the investigation through meetings and questioning the students and ask for suggestions from faculty and staff. Also write a covering letter to which the report shall be attached. 6+3=9

6. Write an article on problems of Global Warming describing its causes, effects and possible solutions. 3+3+3=9

SECOND HALF

Answer Question No. **7** and *any* **three** from the rest

7. Choose the correct option/Fill in the blanks (any *eight*) : 1×8=8

(a) Which component of computer is known as the brain of the computer?

(i) Monitor

(ii) CPU

(iii) Memory

(iv) None of the above

(b) Which of the following is not a unit of the computer?

(i) ALU

(ii) Memory

(iii) Control unit

(iv) Data

(c) Which one of the following devices uses stones for performing calculations?

(i) Sand table

(ii) Abacus

(iii) Napier bones

(iv) None of the above

(d) Which technology was used in the fourth generation computer?

(i) Microprocessor

(ii) Vacuum tube

(iii) ICs

(iv) Transistor

(e) Which one of the following memories is not a primary memory?

(i) ROM

(ii) SRAM

(iii) EEPROM

(iv) Magnetic tape

(f) The _____ memory is kept near the CPU.

(g) The 1's complement of 11010011 is _____.

(h) 1 byte is equal to _____ bits.

(i) The base of hexadecimal is _____.

(j) ASCII stands for

(i) American standard code for information interchange

(ii) American scientific code for information interchange

(iii) American standard code for interchange information

(iv) None of the above

8. (a) State the features of fourth generation of computer.

(b) Define ROM. What are the different types of ROM?

(c) Classify memory in brief. 2+3+4=9

9. (a) Draw a block diagram of computer and explain the functions of each unit block.

(b) What is flowchart? Draw a flowchart to find the largest of 3 numbers. 5+(1+3)=9

10. *(a)* Convert the following :

(i) $(11011 \cdot 0110)_2$ = Decimal

(ii) $(5A6D)_{16}$ = Octal

(b) *(i)* Add 101010 and 010011.

(ii) Subtract the binary number 0010 from 0101.

(c) Subtract 13 from 15 using the one's complement method. 3+3+3=9

11. *(a)* What is system software? Give examples.

(b) Distinguish between system software and application software.

(c) What is DOS? Write some internal and external commands of DOS. 2+3+(1+3)=9

12. *(a)* Write down the algorithm to find the sum of two nos.

(b) Write a program in BASIC to calculate simple interest when principal (P), time period (t) and rate of interest (r) are given.

(c) What is the difference between compiler and interpreter? 2+4+3=9

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