**Nepal college of Information Technology**

**Balkumari, Lalitpur**

**Assessment**

**Set- B**

Level: **Bachelors** Semester: **I** Year: **2020**

Program: **BE**  Course: **Communication Technique**

Time: **3 hrs.** Full Marks: **100** Pass Marks: **45**

*Candidates are expected to answer the questions in their own words as far as practicable. The figures in the margin indicate full marks.*

*Answer all the questions.*

1. Read the following passage and answer the questions that follow. 15

The radar waves are generated in the transmitter which is occupied with ratio tubes of special design. The transmitting, antenna usually also functions as the receiving antenna. This process is called periodic changeover. The receiver picks up the reflected beam and the corresponding electronic circuits are used to deflect electro beam in the cathode ray tube (CRT). The beam is so deflected that it scans the luminescent screen from the center to the edge while it rotates at the same speed as antenna.

An echo picked up by the receiver strengthens the flow of electron in the CRT, causing a point of light appear on the screen and to remain visible by phosphorescent afterglow until flesh echoes are picked up on next revolution of the scanning antenna. In this way the points of light build up a picture of the area scanned by the radar beam. The brightness of the display of the signal (the radar echo) on the luminescent screen of the CRT depends on the reflecting power of the objects with regard to the high-frequency radio waves sent out by the radar transmitter for this reason, a radar image generally looks quite different from an optical image, though as a rule they have the same outlines. Most radar sets employ pulse radar. This is so called because tile transmitter sends out short intense bursts or pulses of energy with a relatively long interval between the pulses. The receiver is active during this interval. When sufficient time has elapsed to permit the reception of echoes from the most distant objects of interests, the transmitter sends another sends short pulse and short pulse and the cycle is repeated.

**Questions:**

1. How does a streak of light appear on the screen?
2. Describe the concept of periodic changeover.
3. Why does a radar image appear distinct from an optical image?
4. Describe the process of the repetition of radar cycle.
5. Give the passage a suitable title and summarize the text in three sentences.
6. Answer ***any three*** of the following questions. 15
   1. How can knowledge and wisdom be defined? Can wisdom be taught? What is the major worry of Russell regarding humankind? (Knowledge and Wisdom)
   2. Describe the various purposes the preliminary surveys in laying the foundations of the road? (Road Foundations)
   3. “For we are the lost citizens of the world, weep not for me, oh my mother.” What does the statement imply in the poem? (A Letter from the Foreign Grave)
   4. Sontag opines, “There should be a way of saving beauty from women and for them.” What does she mean? Describe. (Beauty)
   5. ‘The death of Mrs. Mallard is associated with the feminist as well as psychological interpretation of the story’. Justify the statement. (The Story of an Hour)
7. a) Assume that you are the Manager of the Department of Sales of Opal Computers and Electronics Pvt. Ltd. You are planning to hold a conference in Biratnagar next week with your team. Now write a letter to a locally situated star hotel making inquiries about the essentials you need there. 8

b) Suppose that you are the General Secretary of your company. Your company held its 3rd monthly meeting yesterday. Imagine at least four agenda of the meeting and write the complete minutes. 7

1. a) Read the following passage and make notes. 8

Edmund Burke called the Press, the fourth Estate of the realm. I think he did not use this title for the press thoughtlessly as a social ruling group or class. The three Estates of Realm (in England) are the Lords Spirituals i.e. the Bishops in the House of Lords, the Temporal i.e. other Lords and the Commons i.e. the common people. The press has been rightly called the Fourth Estate as it constitutes a ruling group or class like the Lords and Commons. It cannot be denied that the press exercises a good deal of influence in shaping public opinions and pointing out the weakness or defects of the society or of Government and in general, bringing to light all these good or bad things in society which would have otherwise remained unnoticed. The power is not limited or put under any check. The Press, instead of being controlled by anyone, controls life and thoughts of nation. Hence the Press constitutes an Estate by itself.

Obviously, the power which the Press in any country yields depends upon the number of newspaper readers. The opinions and comments of newspapers can influence the life of nation only when they are read by people. Reading in turn, requires that the general mass of people should be educated. Thus, the spread of education determines the extent of newspapers. Where readers are few, newspapers must necessarily be few. Their influence in the case can extend only to a small minority of population. In a country like India the percentage of literacy is very low and the standard of journalism is not very high. So, the press has to play the role of a teacher here.

b) Prepare a manuscript of technical talk/seminar paper on “Impacts of Science and Technology in Human life”. 7

5. a) Imagine that you are the Coordinator of a committee that is organizing an excursion for the students of BE program of your college. Now, as the coordinator of the excursion program, write a memo to all the members of excursion team mentioning all the details of the departure, place, time and other suggestions if any. 7

b) Suppose that there is a vacancy announcement at the Social Reformation Center, an NGO, for the post of an Administration Officer for its new project. Now, write a job application for the post as a qualified and competent candidate. 8

6. a) Colleges these days frequently complain that their students bunk their classes and spend time either by going to movie halls or attending dance clubs. Now, prepare a proposal to be submitted to the Principal of your college to study the problem and find out the solution of the problem so as to help bring the students back to their studies. In the proposal, include the sub headings like: Introduction, Statement of Problem, Objectives, Methodology, Budget, Output, etc. 10

b) Write a paragraph on “Natural Resources of Nepal” focusing on the water and forest resources and their importance. 5

7. a) Transform the following sentences as indicated in the brackets. 5

1. Do you know the person in red dress? (complex)
2. Despite his insincerity, the Principal didn’t take any action against him. (Complex)
3. She studies hard and gets excellent results. (Simple)
4. Even though they belong to same family, they don’t have smooth relationship. (Compound)
5. Attempting his best, he won the gold medal. (compound)

b) Change the following sentences according to the variety labels in the parentheses. 5

1. One should not ignore the needs of his family. (BrE)
2. They insisted that the culprit should be produced before the police within twenty four hours. (AmE)
3. I wonder if you would mind lending me your car. (Familiar)
4. You must submit all assignments within the stipulated time. (Impersonal)
5. I am sorry to tell you about this thing. (Formal)

The End