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Question Paper Code: 91001

B.E. / B.Tech. DEGREE EXAMINATION, AUGUST 2021

First Semester

Civil Engineering

19UEN101 - ENGLISH FOR TECHNICAL COMMUNICATION

(Common to ALL branches)

(Regulation 2019)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. Define synonym for proliferate : CO1- App
2. Fill in the blanks using appropriate tense: CO2- App
The boys _____ outside at the moment.
(a) play (b) are playing (c) is play (d) are play
3. Find the correct subject-verb agreement word in the following sentence: CO3- App
Every student _____ supposed to show his / her identity card during the examination.
(a) are (b) is (c) have (d) has
4. Choose the suitable preposition and fill in the blank: CO4- App
____ whom are you talking?
(a) in (b) up (c) for (d) to
5. Write two sentences for the given word using the same word as noun and verb: Record CO5- App
6. Define the following: CO1 R
a) Carburettor
b) Mouse
7. Explain the email etiquettes. CO2 R

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| 8. Define 'Note Making'. | CO3 R |
| 9. Define skimming and scanning | CO4 R |
| 10. Differentiate listening and hearing. | CO5 R |
| 11 Define 'Subject' and 'Predicate'. | CO1 R |
| 12 List out the basic forms of a Letter. | CO2 R |
| 13 Tabulate the uses of 'shall' and 'will'. | CO3 R |
| 14 Discuss the principles of 'Report Writing'. | CO4 R |
| 15 Explain Skimming and Scanning. | CO5 R |

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

11. Read the following passage carefully and answer the questions: CO1- App (10)

Solar Power Satellites (SPS) were originally proposed as a solution to the oil crisis of 1970's by the American Engineer Peter Glaser. He imagined 50 sq. km arrays of solar cells deployed on satellites orbiting 36,000 km above fixed points along the equator. A satellite at the geosynchronous altitude takes 24 hours to orbit the earth and thus remains fixed over the same point all the time.

The technology as originally envisioned posed daunting technical hurdles. Transferring electrical power efficiently from a satellite in geosynchronous orbit would require a transmitting antenna, on board the satellite, about 1 km in diameter, and a receiving antenna about 10 km in diameter. A project of this scale boggles the mind; government funding agencies shed away from investing immense sums in a project whose viability was so unclear.

However, in the last few years, the communication industry has made tremendous progress. The new communication satellites will orbit at an altitude of only a few hundred km. Instead of hovering above a spot on the equator, these low - orbiting satellites zip around the globe in as little as 90 minutes. Because they are closer to the earth's surface, the solar collectors in the satellite can be a few hundred meters across rather than 10 km. And, because the microwave beams they generate would spread out much less than those from geosynchronous satellites, the ground antennas could be correspondingly smaller and less expensive as well.

(a) Answer the following questions in not more than 20 words each:

1. Why were the SPS proposed as a solution to the oil crisis of 1970's?
2. What is a geosynchronous orbit?
3. What were the problems posed by the originally proposed SPS?
4. Why were the funding agencies afraid of implementing the original SPS project?
5. How is the orbit of the new communications satellite different from that of the original SPS?

(b) State whether the following statements are true or false:

1. The cost of an antenna depends on its size.
 2. The new communication satellites take 24 hours to orbit the earth.
 3. The new satellites have their orbit fixed over the same point on earth, all the time.
12. Write a letter to the Chief Executive Officer of M/s. Ashok Leyland – Unit I at Hosur requesting him to permit you for an industrial visit. CO2- C (10)
13. Draft a set of eight instructions that ought to improve the employability skills. CO3- C (10)
14. Write detail about report on the recent Industrial visit. CO4- C (10)
15. Grasp the idea from the pie-chart and write a paragraph. CO5- C (10)

