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Question Paper Code: 91001

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2022

First Semester

Civil Engineering

19UEN101 - ENGLISH FOR TECHNICAL COMMUNICATION

(Common to ALL branches)

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. Choose the synonym for **proliferate** : CO1- App
(a) to produce rapidly (b) slowly (c) no production (d) Profit
2. Fill in the blanks using appropriate tense: CO1- 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: CO1- 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: CO1- 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** CO1- App
6. **Fill in the blank with suitable one word substitution.** CO1- App
A person who talks in sleep is called as _____ .
(a) philatelist (b) somnambulist (c) somniloquist (d) oneirocritic

7. **Correct the error in the given sentence:** CO1- App
 He was quite amusing when he heard what had happened.
8. **Choose the suitable tense form:** CO1- App
 The finance minister _____ the newly constructed buildings tomorrow.
- (a) will inaugurate (b) inaugurated (c) inauguration (d) inaugurate
9. **Choose the correct answer:** CO1- App
 She is going to buy the flat. _____?
- (a) Isn't it? (b) Aren't you? (c) Isn't she? (d) Hadn't she?
10. **Choose the appropriate adverb:** CO1- App
 Children are playing _____ (happy)
- (a) is happy (b) happy (c) happiness (d) happily

PART – B (5 x 2= 10 Marks)

11. Write any four words beginning with the prefix " Multi". CO1- R
12. List out eight parts of speech. CO1- R
13. Define 'Note Making'. CO3- R
14. Define skimming and scanning CO2- R
15. Differentiate listening and hearing. CO4- App

PART – C (5 x 16= 80 Marks)

16. (a) **Read the following passage carefully and answer the questions:** CO2- App (16)
 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: (5X1=5)

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:

(5X1=5)

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.
4. Both the types generate microwave beams.
5. The solar collectors on the new communication satellite are bigger than those on the original SPS.

(c) Complete the following sentences suitably by adding not more than 10 words: : (2X1=2)

1. The original SPS were designed to orbit the earth in 24 hours; whereas -----.
2. The micro wave beams which the new SPS generate spread out much less than those from original SPS because -----.

(d) Give the meanings of the following words as used in the passage: (3X1=3)

1. Deployed 2. Viability 3. Hovering

(e) Give a suitable title to the passage. (1)

17. (a) 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. CO3- C (16)

Or

- (b) Read the following advertisement and write a letter of application for the post advertised enclosing your bio-data. CO3- C (16)

SALES ENGINEERS

A well-established company invites applications from aggressive and competent sales persons to sell micro-computer systems and related products.

Our Requirements:

- a University degree in Engineering
- industry experience
- good command over English and Tamil

Attractive remuneration package will be offered to the right candidate. Please apply with full career details and salary expectation to the Human Resources Manager, P.O. Box 12543, General Post Office, Chennai.

18. (a) Draft a set of eight instructions that ought to improve the employability skills. CO3- C (16)

Or

- (b) Develop the following hints into a paragraph with a suitable title: CO3- C (16)

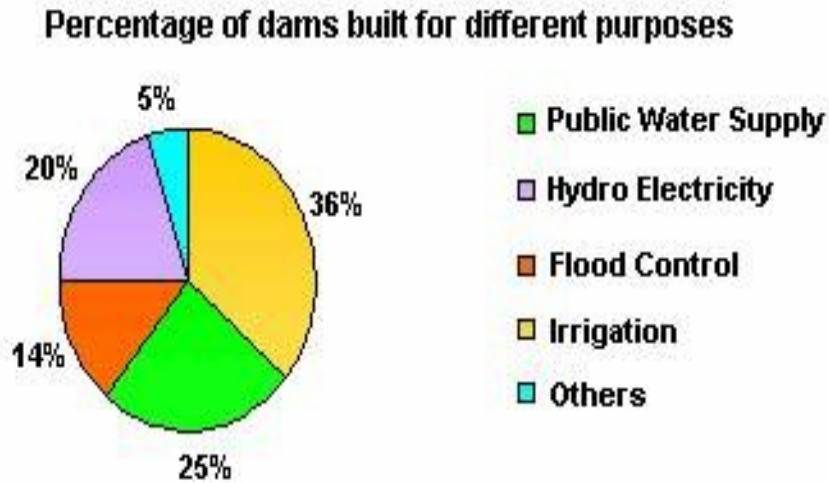
A rich farmer - lot of land - cattle and servants - two sons - happy life - After some years younger son unhappy - asked for his share of the property - wouldn't listen to father's advice - got his share - sold them all - went away to another country - fell into bad ways - soon all money gone - poor - no one to help him - understood his mistake.

19. (a) Write a detailed report on a fire accident that you have seen recently in an industry. CO5- C (16)

Or

- (b) Write detail about report on the recent Industrial visit. CO5- C (16)

20. (a) Grasp the idea from the pie diagram and write a paragraph on percentage of dams built for different purposes in India. CO3- C (16)



Or

- (b) Read the following passage carefully and do the precise : CO3- C (16)

We live in an age of great hurry and great speed. Men have lost their inward resources. They merely reflect. Like a set of mirrors, opinions which they get a little leisure, they turn to material diversions from outside rather than to inward resources. This internal vacuum is responsible for mental and nervous troubles. The cure for this is not so much treatment by medicine and surgery but a recovery of faith in the ultimate goodness, truth and the decency of things. If we are able to recover that faith, if we are able to live in this world with our consciousness centered in the intimacy of the spirit, many of the problems to which we are subject today may be overcome. Our people were regarded as aspiring after metaphysical insight, but we seem to forget that it never occurred to them to equate eternal life with either the surrender of the mind or the sacrifice of the body. When an Upanishad writer was asked to define what is meant by spiritual life. He gave the answer that it consists of the satisfaction of the

mind, the abundance of tranquility of the spirit. Body, mind and spirit must be integrated and they must lead to a harmonious developed life. If we get that, we have life eternal.

