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Question Paper Code: U1001

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2024

First Semester

Civil Engineering

21UEN101 - ENGLISH FOR TECHNICAL COMMUNICATION

(Common to ALL branches)

(Regulation 2021)

Duration: Three hours

Maximum: 100 Marks

PART A - (10 x 1 = 10 Marks)

(Answer All questions)

1. Rewrite the following sentence into Passive voice CO1- App
We are doing this Project.
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
One of his tonsils ____ removed.
(a) was (b) were (c) have (d) had
4. Choose the suitable preposition and fill in the blank: CO1- App
India is committed ____ a policy of peaceful existence.
(a) of (b) with (c) for (d) to
5. Write two sentences for the given word using the same word as noun and CO1- App
verb: Significant
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 sentences: CO1- App
 Pranav and Raju carried the heavier load of bricks.
8. Complete the sentences with suitable adverbs CO1- App
 Neither Sai nor Sadhana _____ (come) home
 (a) has (b) is (c) was (d) have
9. Choose the correct prefix for the word decent: CO1- App
 (a) mis (b) be (c) in (d) non
10. Choose the appropriate adverb: CO1- App
 Children are playing _____ (happy)
 (a) is happy (b) happy (c) happiness (d) happily
11. Write any two sentence in past tense CO1- R
12. List out eight parts of speech CO1- R
13. Define “Concord”. CO1- R
14. Define skimming and scanning CO2- App
15. Differentiate listening and hearing. CO4- App

PART – B (5 x 2= 10 Marks)

16. **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- App (16)

Or

- (b) Read the following advertisements and write a letter of CO3- App (16) application for the post advertised enclosing your resume.

V A C A N C Y

Q A E N G I N E E R

Metatechno Lanka Company (Pvt) Ltd, A BOI approved Japan based software development company is looking for a dynamic, energetic, experienced and young Engineer for the above position. Initial engagement is on contract basis.

Qualifications

- » A Bachelor's Degree in Information Technology, Computer Engineering or equivalent Professional qualification.
- » 2+ years of experience in Software Quality Assurance.
- » Good understanding in testing concepts and principles.
- » Exposure to agile scrum testing methodologies.
- » Experience on preparing test documents and testing in Web and Mobile applications.

An attractive remuneration package is waiting for the right candidates.

If you are interested, please apply within 15 days of this advertisement.

Metatechno Lanka Company (Pvt) Ltd
Level 6, "Millennium House", No. 46/58, Nawam Mawatha, Colombo 02
Tel : +94-11-2304440 Fax : +94-11-2304441
E-mail : recruitments@metalanka.com
www.metalanka.com

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

Or

- (b) Develop the following hints into a paragraph with a suitable title: CO3- App (16)
- A tiger gets caught in a cage-A kind traveller releases it-Tiger pounces on the man-The man pleads for mercy-Tiger allows him three chances to seek help-The man pleads with a tree- the tree says men are selfish-The man seeks the pathway's help – it declines to help, calls people ungrateful-A jackal comes by, the man calls for help. The jackal asks the tiger how he had got caught-The tiger enters the cage to show just that and the jackal latches the cage.

19. (a) Write a detailed report about traffic congestion in which you and CO5- App (16) many others were stranded for several others

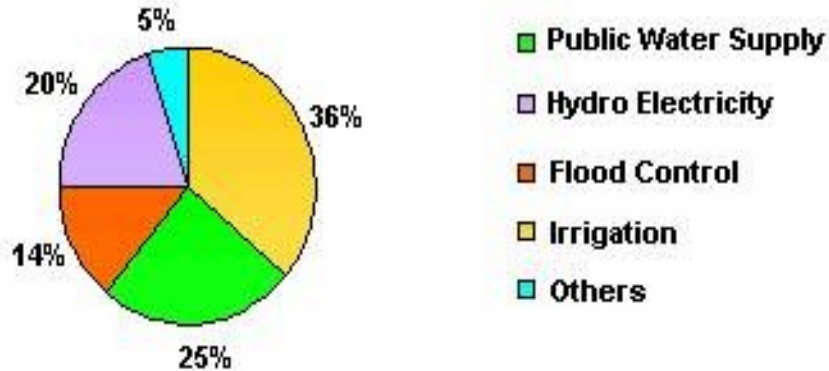
Or

- (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- App (16)

Percentage of dams built for different purposes



Or

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

CO3- App (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.

