

**FACULTY OF ENGINEERING**  
**B.E. (CIVIL/ECE/M/P/AE/CSE/CME/DS/IT) II - Semester (AICTE) (Backlog) Examination,**  
**March / April 2022**  
**Subject: English**

Time: 3 Hours

Max. Marks: 70

**Note: (i) First question is compulsory and answer any four questions from the remaining six questions. Each question carries 14 marks.**

**(ii) Answer to each question must be written at one place only and in the same order as they occur in the question paper.**

**(iii) Missing data, if any, may be suitably assumed.**

1. a) i) I can think of \_\_\_\_ **hundred reasons** not to come. **(Use appropriate article.)**  
 ii) The army is \_\_\_\_\_ move. **(Use an appropriate preposition.)**
  - b) i) Life is full of tears \_\_\_\_\_ none wishes to die. **(Use an appropriate conjunction.)**  
 ii) Helicopter + Airport = \_\_\_\_\_ **(Blending)**
  - c) i) A book written by an unknown author is called \_\_\_\_\_  
**(Choose the right one word substitute.)**  
 ii) Ensure safety to avoid collateral damage. **(Meaning of the underlined euphemism.)**
  - d) **Convert the sentences as instructed.**  
 i) The dress was being washed by the domestic help. **(Change into Active voice.)**  
 ii) Shila said to her mother, "I shall help you." **(Change into Indirect speech.)**
  - e) i) The cop \_\_\_\_\_ the driver since he could not \_\_\_\_\_ his car papers. [find, fined] **(Fill in the blanks.)**  
 ii) I have to wait since it \_\_\_\_\_ from 6 pm. (had been raining, is raining, has been raining, was raining) **[Choose the correct Tense.]**
  - f) i) **Choose the correct Synonym of Adamant from the given options.**  
 huge, confused, stubborn, dishonest  
 ii) **Choose the correct antonym of Exalted from the given options.**  
 joyful, depressed, excited, precarious
  - g) i) The contraction for **has not** is \_\_\_\_\_ hasnt, has'nt, hasno't, hasn't  
 ii) The quality of the work was very poor and much of it had to be \_\_\_\_ done.  
**(Choose the right Prefix.)** - un, -in, -re, -pre
2. a) "Muni was in a fix when the American talked to him in a language unknown to him."  
 Discuss the situation created due to this linguistic barrier.  
 b) Write a paragraph on 'The Benefits of Positive Thinking.'
  3. a) A graduate aspires to pursue MS degree at a foreign university in his/her respective area of study. Prepare an SOP for this purpose.  
 b) " If you can meet with Triumph and Disaster And treat those two impostors just the same;"  
 What does the poet mean by "Triumph" and "Disaster"? Why does he emphasize on treating them in the similar manner?
  4. a) "I am always amazed when I hear people saying that sport creates goodwill between the nations." How did George Orwell shatter the myth that 'sports creates goodwill between the nations'?  
 b) Assume you are Ms. Sheema Khatri, an employee working at an organic baby food company called Ormeal. Draft a complaint letter to submit to your senior manager regarding the violation of CoviD19 safety protocols by some of the employees in your office, highlighting its ill consequences.

5. a) Write a note on the elements of a formal report following the right sequence.  
b) Write a formal report to be submitted to the college principal on the Swachh Bharat Mission activity that was followed in your college.
6. a) Write brief notes on : Topic sentence, Unity and Coherence  
b) It is obvious today that America has defaulted on this promissory note, insofar as her citizens of color are concerned. Instead of honoring this sacred obligation, America has given the Negro people a bad check, a check which has come back marked "insufficient funds."  
i) What did the 'promissory note' promise every American?  
ii) What does the author mean by the phrase "bad check"?  
iii) Write the meaning of the word 'obligation'.
7. a) What do the two roads symbolize in the "Road Not Taken"? What is the significance of "choosing a road" in the context of one's journey of life?  
b) Arrange the following sentences logically and indicate the sequence:  
A. Such a man goes on working hard and even if he fails he is never downcast.  
B. It is therefore, the man who labours hard with a strong resolution and an unshaken will, who achieves success and makes his fortune.  
C. In turn failures make him all the more determined and resolute and he persists in his task till he attains the desired success.  
D. A man who possesses a strong will and firm determination finds all difficulties solved.  
E. To him there are a thousand ways open to steer clear of all dangers and difficulties.

\*\*\*\*

OU - 1607

**FACULTY OF ENGINEERING**  
**B.E. (CIVIL/ECE/M/P/AE/CSE/CME/IT) II - Semester (AICTE) (Backlog) Examination,**  
**March / April 2022**  
**Subject: English**

Time: 3 Hours

Max. Marks: 70

## PART – A

Note: Answer all questions.

(10 x 2 = 20 Marks)

## 1 Fill in the blanks with:

- (a) He is \_\_\_\_\_ European. (Article)  
 (b) We have been working here \_\_\_\_\_2000. (Preposition)  
 (c) She has received \_\_\_\_\_ gifts on her birthday. (Determiner)  
 (d) This is \_\_\_\_\_ pen. (Determiner)

## 2 Fill in the blanks with a prefix/suffix

- (a) Meaning+ \_\_\_\_\_  
 (b) Develop+ \_\_\_\_\_  
 (c) \_\_\_\_\_ + nutrition  
 (d) \_\_\_\_\_ + angle

## 3 (a) Give the constituent words of the compound words.

- (i) Classroom  
 (ii) Blackboard

## (b) Give the blends of the following words.

- (i) Camcorder= \_\_\_\_\_ + \_\_\_\_\_  
 (ii) Emoticon= \_\_\_\_\_ + \_\_\_\_\_

## 4 (a) Choose the appropriate transitions to complete the sentences:

- (i) Green valley school is perfectly located. \_\_\_\_\_ it has a strong academic programme.  
 (a) Moreover (b) Even though (c) Although (d) Nevertheless.  
 (ii) He prefers to read a novel \_\_\_\_\_ watch a film.  
 (a) Rather than (b) Unlike (c) Moreover (d) However.

## (b) Fill in the blanks with the appropriate connectives given below.

- (a) Moreover (b) Although (c) Even though (d) Moreover (e) Finally  
 (i) \_\_\_\_\_ she eats eggs because they ensure good health, she doesn't like them.  
 (ii) There were a lot of interesting points that came up for discussion at the GD. \_\_\_\_\_, we were able to arrive at a group consensus.

## 5 (a) Choose the correct synonym for the underlined word:

- (i) This is a fictitious story.  
 (a) Credible (b) Dishonest (c) Imaginative (d) Fabricated

## (b) Choose the correct antonym for the underlined word:

- (i) Make a prudent use of time.  
 (a) Foolish (b) Poor (c) Proper (d) Unwise.

## (c) Give a one-word substitute:

- (i) Longing for the past  
 (ii) Impossible to forget or remove.

..2..

**6 Transform the following sentences:**

- (a) Sheela sings songs. (convert into passive voice)  
 (b) My bicycle was stolen. (convert into passive voice)

**7 Transform the following sentences:**

- (a) Shiva said "It is wonderful!" (change into reported speech)  
 (b) He said that he had done his project (change into direct speech)

**8 Which word best completes the sentence:**

- (a) The marine did not \_\_\_\_ the burning ship, but struggled to save those who were hurt. (desert/dessert)  
 (b) Tie up your \_\_\_\_\_. It is falling over your eyes. (hair/hare)

**9 Fill in the blanks with the correct form of the verbs given in the brackets.**

- (a) Revathi \_\_\_\_ (water) the plants for two hours.  
 (b) Sulochana \_\_\_\_ (do) her homework just now.

**10 Match the following words in Column A with related words in Column B:**

A	B
i. Mankind	a. visually impaired
ii. Stupid	b. hand over the coals
iii. Blind	c. he is resting in peace
iv. Dead	d. intellectually challenged
	e. humankind
	f. hearing impaired

**PART – B****Note: Answer any five questions.****(5 x 10 = 50 Marks)**

- 11 (a) Write about the character of Muni in "The Horse and Two Goats."  
 (b) Expand the given outline and write a paragraph in about 150 words with a suitable title. Appu got less marks-father didn't say anything-felt guilty-strong determination-time management-effective planning-improved a lot-teacher appreciated-father smiled-energy booster-d-achieved good job-successful career-father felt proud-Appu emotionally overjoyed.
- 12 (a) What does the poet want to convey to the humankind in the poem 'If'?  
 (b) Write a paragraph about 150 words on "Freedom and responsibility are the two sides of the same coin."
- 13 (a) What did Martin Luther King want to convey in the lines? "I have a dream that one day even the state of Mississippi, a state sweltering with the heat of injustice, sweltering with the heat of oppression, will be transformed into an oasis of freedom and justice."  
 (b) Write a letter to your parent about your friendly and lively atmosphere at your workspace besides complaining about the hostel food at your hostel.
- 14 (a) Draft a report on visiting an exhibition to your class teacher.  
 (b) Why did the speaker decide to choose the less travelled road in the poem "The Road Not Taken" by Robert Frost?

..3..

- 15 (a) In 'The Sporting Sprit' what suggestion does the author give to the readers from the lines: "In a rustic community a boy or young man words off a good deal of his surplus energy by walking, swimming, snowballing, climbing trees, riding horses, and by various sports involving cruelty to animals, such as fishing, cock-fighting and ferreting for rats. In a big town one must indulge in group activities if one wants an outlet for one's physical strength or for one's sadistic impulses."
- (b) Write an SOP to the University of London, UK to seek admission to do MS in science. Mention that you scored outstanding marks in BE along with additional skills.

**16 Read the following passages and answer the following questions.**

- (a) It is more useful to inquire how and why this modern cult of sport arose. Most of the games we now play are of ancient origin, but sport does not seem to have been taken very seriously between Roman times and the nineteenth century. Even in the English public schools the games cult did not start till the later part of the last century. Dr. Arnold, generally regarded as the founder of the modern public school, looked on games as simply a waste of time. Then, chiefly in England and the United States, games were built up into a heavily-financed activity, capable of attracting vast crowds and rousing savage passions, and the infection spread from country to country. It is the most violently combative sports, football and boxing, that have spread the widest. There cannot be much doubt that the whole thing is bound up with the rise of nationalism – that is, with the lunatic modern habit of identifying oneself with large power units and seeing everything in terms of competitive prestige.
- (1) Who is regarded as the founder of the modern public school?
  - (2) How does the founder look at the game?
  - (3) What is the disadvantage of conducting international games?
  - (4) Mention the duration in which games were not taken seriously.
  - (5) Who is the author of the text?
- (b) In a sense we have come to our nation's capital to cash a check. When the architects of our republic wrote the magnificent words of the Constitution and the Declaration of Independence, they were signing a promissory note to which every American was to fall heir. This note was a promise that all men, yes, black men as well as white men, would be guaranteed the unalienable rights of life, liberty, and the pursuit of happiness. It is obvious today that America has defaulted on this promissory note insofar as her citizens of color are concerned. Instead of honoring this sacred obligation, America has given the Negro people a bad check, a check which has come back marked "insufficient funds." But we refuse to believe that the bank of justice is bankrupt. We refuse to believe that there are insufficient funds in the great vaults of opportunity of this nation. So we have come to cash this check - a check that will give us upon demand the riches of freedom and the security of justice. We have also come to this hallowed sport to remind America of the fierce urgency of now. This is no time to engage in the luxury of cooling off or to take the tranquilizing drug of gradualism. Now is the time to make real the promises of democracy. Now is the time to rise from the dark and desolate valley of segregation to the sunlit path of racial justice. Now is the time to lift our nation from the quick sands of racial injustice to the solid rock of brotherhood. Now is the time to make justice a reality for all of God's children.
- (1) Who signed the promissory note?
  - (2) What is the promissory note?
  - (3) What is the meaning of insufficient funds?
  - (4) What check do they want to encash?
  - (5) Who are God's children?

..4

..4..

17 (a) **Arrange the following sentences into a meaningful paragraph:**

- (a) Abdul Kalam was born into a middle-class Tamil family in the town of Rameshwaram.
  - (b) The death of Jallaluddin had taken its toll on Kalam's father's health and spirit.
  - (c) After his father's death, he sat for a long time with his mother quietly before leaving to France.
  - (d) Abdul Kalam, the recipient of several prestigious awards, including the Bharat Ratna, collapsed and died from an apparent cardiac arrest while delivering a lecture at the Indian institute of Management, shilling.
  - (e) The next morning, he was back at Thumba from Rameswaram physically exhausted emotionally shattered, but determined to fulfill our ambition of flying an Indian rocket motor.
  - (f) Before he could leave late in the afternoon, he was informed that his mother, too, had passed away.
  - (g) Abdul Kalam's sister Zohara was married to Ahmed Jallaluddin, who inspired and discussed spiritual matters with Kalam.
- (i) AGBCFED (ii) ABCGEFD (iii) ABCEFGD (iv) ABCEGFD.

(b) **Read the following passage and answer the following questions.**

Sachin Tendulkar was born on 24 April 1973 in Mumbai. He went to Sharadasharam Vidhyamandir, a high school in Mumbai, where he began his cricketing career under his coach Ramakanth Achrekar. He attended the MRF Pace Foundation during his schooldays to get trained as a fast bowler, but Australian fast bowler Dennin Lillee, who saw during training, was not much impressed and suggested that Tendulkar should focus on his batting instead.

While at school, his extraordinary batting skills got noticed by the sports circuit. In the 1988 season, he scored a century in every inning that he played. In one of the interschool matches that year, he had an unbroken 664-run partnership with his friend and teammate Vinod Kamblī.

When he was fourteen, Indian batting legend Sunil Gavaskar, a great Indian batsman of that time, gave him a pair of his own light pads. This touching gesture greatly encouraged the budding cricketer, who, twenty years later, broke world record of thirty- four test centuries.

When he was young, Tendulkar would practice for hours on end in the nets. If he became exhausted, Achrekar would put a one-rupee coin on the top of the stumps, and the bowler who dismissed Tendulkar would get the coin. If Tendulkar passed the whole session without getting dismissed; the coach would give him the coin. Tendulkar now considers the thirteen coins as his prized possessions.

- (1) Who suggested Tendulkar to focus on batting?
- (2) Where did Sachin Tendulkar go to get trained as a fast bowler?
- (3) What record of Gavaskar was broken by Tendulkar?
- (4) Who is the friend and teammate of Sachin Tendulkar in the 1988 season interschool match?
- (5) What do you think of Sachin Tendulkar who won thirteen, coins; his prized possessions?

\*\*\*\*

**FACULTY OF ENGINEERING**  
**BE (Civil/EEE/EIE/ECE/MECH/PROD/AE/CSE/IT) II - Semester (CBCS) (Backlog)**  
**Examination, March / April 2022**

**Subject: Engineering Mathematics - II**

Time: 3 hours

Max. Marks: 70

(Missing data, if any, may be suitably assumed)

**PART – A**

**Note: Answer all questions.**

**(10 x 2 = 20 Marks)**

- 1 Find an integrating factor of the differential equation  $xydy - ydx = xy^2dx$ .
- 2 State Newton's law of cooling.
- 3 Solve  $y''' - y' = 0$ .
- 4 Determine whether the functions  $x^2, \frac{1}{x^2}$  are linearly dependent on  $(0, \infty)$ .
- 5 Classify the singular points of  $x^2y'' - xy' + y = 0$ .
- 6 Using Rodrigues's formula, find  $P_2(x)$ .
- 7 Define Beta and Gamma functions.
- 8 If  $n$  is an integer, then prove that  $J_{-n}(x) = (-1)^n J_n(x)$ .
- 9 Find  $L\{te^t\}$ .
- 10 Find the inverse Laplace transform of  $\frac{1}{s^2 + 2s + 1}$ .

**PART – B**

**Note: Answer any five questions.**

**(5 x 10 = 50 Marks)**

- 11 (a) Solve  $x^2y dx - (x^3 + y^3)dy = 0$ .  
 (b) Solve  $x \frac{dy}{dx} + y = x^3y^6$ .
- 12 (a) Solve  $y'' - 2y' + y = e^x \cos x$ .  
 (b) Apply method of variation of parameters to solve  $y'' + y = \sec x$ .
- 13 State and prove orthogonal property of Legendre Polynomials  $P_n(x)$ .
- 14 (a) Prove that  $J_{\frac{1}{2}}(x) = \sqrt{\frac{2}{\pi x}} \sin x$ .  
 (b) Prove that  $xJ'_n(x) = xJ_{n-1}(x) - nJ_n(x)$ .
- 15 (a) Find the Laplace transform of  $f(t) = \frac{1 - \cos t}{t}$ .  
 (b) Using convolution theorem, find  $L^{-1}\left\langle \frac{1}{s(s-1)} \right\rangle$ .
- 16 (a) Find the general and singular solutions of the differential equation  $y = xy' + (y')^2$ .  
 (b) Solve  $x^2y'' - xy' + y = 2 \log x$ .
- 17 (a) Express  $x^3 + 2x^2 + 3x - 5$  in terms of Legendre Polynomials  $P_n(x)$ .  
 (b) Evaluate  $\int_0^{\pi/2} \sqrt{\tan x} dx$  using Beta and Gamma functions.