

FACULTY OF ENGINEERING
B.E. II - Semester (AICTE) (Backlog) Examination, September 2021
Subject: English

Time: 2 Hours

Max. Marks: 70

Note: Missing data, if any, may be suitably assumed

PART – A

Note: Answer any five questions:**(5x2 = 10 Marks)****1 Fill in the blanks with:**

- (a) Can you lend me _____ one-rupee coin? (Article)
- (b) I prefer oranges _____ apple. (Preposition)
- (c) They have given _____ gifts on her birthday. (Determiner)
- (d) _____ fruit is sweet. (Determine)

2 Fill in the blanks with Prefixes/Suffixes

- (a) doubt+ _____
- (b) agree+_____
- (c) _____+regular
- (d) _____+legal

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

- (i) Football
- (ii) Keyboard

(b) Give the blends of the following words.

- (i) Email=_____+_____
- (ii) Medicare=_____+_____

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

- (i) Arun likes to attend classes regularly_____ his brother who is always irregular.
 (a) As (b) Nevertheless (c) unliked (d) even though
- (ii) We need to set our goals first._____, we need to execute them and then review how we have progressed.
 (a) Unlike (b) Until (c) After that (d) Moreover

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

- (a) Moreover (b) Although (c) Even though (d) because of
- (e) As a result.
- (i) I was late to work – heavy traffic. (ii) It was raining hard today, - the match may be cancelled.

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

- (i) The commission elicited the truth.
 (a) Brought (b) Extracted (c) Discovered (d) Proficient

(b) Choose the correct antonyms for the underlined word:

- (ii) It is difficult to persuade a fool.
 (a) Excite (b) Incite (c) Dissuade (d) Check

(c) Give a one-word substitute:

- (iii) One who gets pleasure from hurting other people
- (iv) To remove completely

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6 Transform the following sentence:

- (a) He has submitted a report. (convert into passive voice)
- (b) Fish is being caught by them. (convert into active voice)

7 Transform the following sentence:

- (a) Parijatham said "I will not come tomorrow". (change into reported speech)
- (b) Rita said that they had watched the movie the previous night. (change into direct speech)

PART – B

Note: Answer any four questions:

(4x15 = 60 Marks)

- 8 (a) Write about the conversation between Muni and the foreigner considering the importance of language.
(b) Expand the given outline and write a paragraph in about 150 words with a suitable title. Two sisters-Veena elder to Sony- join to learn the guitar-Sony plays well-teacher appreciates Sony- competition held-Veena feels jealous, cut one of the frets of Sony's guitar-prize goes to another person-realizes her mistake- helps Sony to win in another competition.
- 9 (a) What values did you learn from the poem 'If' by Rudyard Kipling?
(b) Write a paragraph about 150 words on "Love and care shape a child."
- 10 (a) Explain the meaning of the lines of Martin Luther King "I have a dream that one day, down in Alabama, with its vicious racists, with its governor having his lips dripping with the works of interposition and nullification; one day right there in Alabama, little black boys and black girls will be able to join hands with little white boys and white girls as sisters and brothers".
(b) Write a letter to the Manager of the L.G. Company complaining about the damaged piece of washing machine you have received.
- 11 (a) Imagine that you went on excursion as a class In-charge along with your students. Draft a report to the Principal of your college.
(b) What do the two roads represent in the poem "The Road Not Taken" by Robert Frost? Which road does the poet choose and why?
- 12 (a) What does the writer want to say from the following lines to the readers?
"I do not, of course, suggest that sport is one of the main causes of international rivalry; big-scale sport is itself, I think, merely another effect of the causes that have produced nationalism. Still, you do make things worse by sending forth a team of eleven men, labeled as national champions, to do battle against some rival team, and allowing it to be felt on all sides that whichever nation is defeated will 'lose face.'
(b) Imagine you have done your engineering course. Write an SOP to the University of Oxford, UK to seek admission to do MS in science.

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13 Read the following passage and answer the following questions.

(a) 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. Also, organized games are more likely to flourish in urban communities, where the average human being lives a sedentary or at least a confined life, and does not get much opportunity for creative labour. In a rustic community a boy or young man works 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. Games are taken seriously in London and New York, and they were taken seriously in Rome and Byzantium: in the Middle Ages they were played, and probably played with much physical brutality, but they were not mixed up with politics or a cause of group hatreds....

- (1) In which countries the games are most likely to flourish?
- (2) What types of life do the average human beings live?
- (3) What suggestion does the writer want to give for physical strength of the people?
- (4) Mention the countries which take games seriously.
- (5) During which period games were played with much physical brutality.

(b) I will pay you everything on the first of next month.'

'As always, and whom do you expect to rob by then?

Muni felt caught and mumbled. My daughter has sent word that she will be sending me money. 'Have you a daughter.' Sneered the shop man. 'and she is sending you money! For what purpose may I know? Birthday, fiftieth birth' said Muni quietly. Birthday! How old are you? Muni repeated weakly, not being sure of it himself. 'Fifty.' He always calculated his age from the time of great famine when he stood as high as the parapet around the village well. But who could calculate such things accurately nowadays with so many famines occurring?' 'More likely you are seventy,' said, the shop man. You also forget that you mentioned a birthday five weeks ago when you wanted castor oil for your holy bath.' 'Bath! Who can dream of a bath when you have to scratch the tank-bed for a bowl of water? We would all be parched and dead but for the big house, where they let us take a pot of water from their well' after saying this Muni unobtrusively rose and moved off. He told his wife. 'That scoundrel would not give me anything. So go out and sell the drumsticks for what they are worth.'

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His wife said 'you are getting no sauce today, nor anything else. I can't find anything to give you to eat. Fast till the evening. It'll do you good. Take the goats and be gone now. She cried and added. Don't come back before the sun is down.'

- (1) "I will pay you everything on the first of the next month" who uttered the words and with whom.
- (2) Has Muni a daughter?
- (3) How does Muni calculate his age?
- (4) What is the meaning of the word 'unobtrusively'?
 - a. Not noticeably (b) reserved (c) cleverly (d) noticeably.
- (6) What is the intention of the words of Muni's wife 'Don't come back before the sun is down?'

14 (a) Arrange the following sentences into a meaningful paragraph.

- (a) Sachin Ramesh Tendulkar was born in Mumbai.
- (b) If Tendulkar passed the whole session without getting dismissed, the coach would give him the coin.
- (c) Sachin played his first match against Pakistan in Karachi at the age of sixteen.
- (d) Sachin Tendulkar married Anjali, a doctor.
- (e) He began his cricketing career under his coach Ramakhant Achrekar.
- (f) Tendulkar now considers the thirteen coins, which he won them as some of his most prized possessions.
 - (i) AEBFCD (ii) ABFCDE (iii) ACFEBD (iv) AFBCDE.

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

I have throughout my life tried to emulate my father in my own world of science and technology. I have endeavoured to understand the fundamental truths revealed to me by my father, and feel convinced that there exists a divine power that can lift one up from confusion, misery, melancholy and failure, and guide one to one's true place. And once an individual severs his emotional and physical bondage, he is on the road to freedom, happiness and peace of mind.

I was about six years old when my father embarked on the project of building a wooden sailboat to take pilgrims from Rameswaram to Dhanuskodi, (also called Sethukkarai) and back. He worked at building the boat on the seashore, with the help of a relative, Ahmed Jallaluddin, who later married my sister, Zohara. I watched the boat take shape. The Pumban Bridge collapsed with a train full of passengers on it. Until then, I had only seen the beauty of the sea, now its uncontrollable energy came as a revelation to me. By the time the boat met its untimely end, Ahmed Jallaluddin has become a close friend of mine, despite the differences in our ages, He was about 15 years older than me and used to call me Azad, but never Abdul Kalam. We used to go for long walks together every evening and spoke about spiritual matters mainly.

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- (1) What is the meaning of emulate
(i) Imitate (ii) Dislike (iii) Conquer (iv) Separate.
- (2) Who is the first person of the text?
- (3) Jallaluddin used to address the writer as _____.
- (4) How old is Jallaluddin?
- (5) Azad and Jallaluddin used to discuss_____.

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FACULTY OF ENGINEERING
B.E. II - Semester (CBCS) (Backlog) Examination, September 2021

Subject: Engineering Mathematics -II

Time: 2 Hours

Max. Marks: 70

Note: Missing data, if any, may be suitably assumed

PART – A

Note: Answer any five questions.

(5x2 = 10 Marks)

- 1 Solve $y' = 2x(y - x^2 + 1)$.
- 2 Find the general solution and singular solution of $y = xy' - \frac{(y')^2}{2}$.
- 3 Solve $y'' + 4y' - 21y = 0$.
- 4 Find a particular integral of the differential equation $y''' - 6y'' + 11y' - 6y = e^{-x}$.
- 5 Classify the singular point of the differential equation $x^3y'' + 3x^2y' + 6y = 0$.
- 6 Evaluate $6P_3(x) + 8P_2(x) + 4P_1(x) + 7P_0(x)$ in terms of powers of x .
- 7 Evaluate $\int_0^5 x^7 \left(1 - \frac{x}{5}\right)^4 dx$.
- 8 Evaluate $\int_0^t \operatorname{erf}(\alpha x) dx$.
- 9 Evaluate $L\{t e^{-t} \sin t\}$.
- 10 Evaluate $L^{-1}\left\{\frac{1}{s(s+1)^2}\right\}$.

PART – B

Note: Answer any four questions.

(4x15 = 60 Marks)

- 11 (a) Solve $y(y^2 - 2x^2)dx + x(2y^2 - x^2)dy = 0$.
 (b) Find the orthogonal trajectories of the family of curves $y^2 = cx^3$, where c is a constant.
- 12 (a) Solve $y'' - y = 2x^4 - 3x + 1$.
 (b) Solve $x^2y'' - 2xy' + 2y = 4x^3$.
- 13 Find the Frobenius series solution of $xy'' + (1+x)y' - 2y = 0$.

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14 (a) Evaluate $\int_0^{\infty} \frac{1}{1+x^4} dx$.

(b) Show that $J_3(x) = \left(\frac{8}{x^2} - 1 \right) J_1(x) - \frac{4}{x} J_0(x)$.

15 (a) Evaluate $L \left\{ \frac{\sin 3t \cos t}{t} \right\}$.

(b) Using Laplace transform solve $y'' + 4y = 9t$, where $y(0) = 0$, $y'(0) = 7$.

16 (a) Using the method of variation of parameters, solve $y'' - 6y' + 9y = \frac{e^{3x}}{x^2}$.

(b) Find the general solution of the Riccati equation $y' = 2e^{-x}y^2 + 3y - 4e^x$, if $y = e^x$ is a particular solution.

17 (a) Show that $(n+1)P_n(x) = P'_{n+1}(x) - xP'_n(x)$.

(b) Evaluate $L^{-1} \left\{ \cot^{-1} \left(\frac{s+2}{3} \right) \right\}$.

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FACULTY OF ENGINEERING

B.E. II - Semester (AICTE) (New) (Main) Examination, September 2021

Subject: English

Time: 2 Hours

Max. Marks: 70

Note: (i) First question is compulsory and answer any three questions from the remaining six questions.

(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.

Answer any four questions.

(4 x 4 = 16 Marks)

- 1 (a) Correct the following:
 - (i) Higher you go the cooler it will be.
 - (ii) Would you like the milk in your coffee?
- (b) Fill in the blanks with appropriate connectors:
 - (i) Though he worked as hard as he could, ____ he could not secure first division. (yet/but/still)
- (c) Convert the following sentences into passive.
 - (i) When did he finish the work?
 - (ii) Look! They have painted the door.
- (d) Change into reported speech.
 - (i) "How was the journey?"
 - (ii) "Would you bring me a cup of coffee, please?"
- (e) Complete the sentences put the verb in the correct form.
 - (i) The bus arrived late today because there (be) an accident on the way to school.
 - (ii) It was a funny situation but nobody (laugh)
- (f) Fill in the blanks choosing an appropriate alternative.
 - (i) Please pay my best ____ to your parents. Complements / compliments.
 - (ii) India is not a permanent member of the security _____. Council/ counsel.
- (g) Give appropriate formal expressions of the following words.
 - (i) Females
 - (ii) Unemployed.

(3 x 18 =54 Marks)

- 2 (a) Examine how cross-cultural differences bring out humour in "A Horse and Two Goats."
(b) Write a paragraph of 150 words on the phenomenon of Brain Drain in India.
- 3 (a) What are the qualities of a man? According to Rudyard Kipling in the poem "If".
(b) Apply for the position of a Trainee Engineer, along with your resume to the HR Manager of XYZ software solutions Ltd.

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- 4 (a) Read the lines and answer the questions briefly.
 “But one hundred years later, the Negro still is not free. One hundred years later, the life of the Negro is still sadly crippled by the manacles of segregation and the chains of discrimination. One hundred years later, the Negro lives on a lonely island of poverty in the midst of a vast ocean of material prosperity. One hundred years later, the Negro is still languished in the corners of American society and finds himself in exile in his own land. And so we’ve come here today to dramatize a shameful condition”.
- Give the antonym of “discrimination”
 - Explain the phrase “the Negro still is not free”
 - How did the Emancipation Proclamation fail after hundred years?
 - Where is the passage taken from?
 - What is the author’s contribution to the modern society?
- (b) As the Literary secretary, you propose to conduct a literary festival at your college, write a letter to the Principal of the college seeking permission to conduct the festival, giving all the details.
- 5 (a) Read the lines from “**The Road not Taken**” and answer the questions.
 “And both that morning equally lay
 In leaves no step had trodden black
 Oh, I kept the first for another day!
 Yet knowing how way leads on to way,
 I doubted if I should ever come back.”
- For the poet, how do both the paths look that morning?
 - Why does the poet keep the first path for another day?
 - What is the poet’s doubt?
 - Identify the writer of the lines.
 - What is the central theme of the poem?
- (b) Imagine that you are the Director of the Pollution Control Board. Write a report on the rising levels of pollution in Hyderabad and suggest remedial measures.
- 6 (a) Read the passage and answer the questions:
 “Even a leisurely game like cricket, demanding grace rather than strength, can cause much ill-will, as we saw in the controversy over body-line bowling and over the rought tactics of the Australian team that visited England in 1921. Football, a game in which everyone gets hurt and every nation has its own style of play which seems unfair to foreigners, is far worse”.
- What does the game of cricket demand?
 - Which game does the author refer to as a game in which everyone gets hurt?
 - What is known as Body-line bowling?
 - Who is the author of the Essay?
 - What is the author’s concern in the essay?
- (b) Draft a Statement of Purpose to an admission committee of a post graduate course of a college in 200 words.

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7 (a) Read the following passage and answer the questions that follow

Reality television is a genre of television programming which, it is claimed, presents unscripted dramatic or humorous situation, documents, actual events, and features ordinary people rather than professional actors. Although the genre has existed in some form or another since the early years of television, the current explosion of popularity dates from around the 2000. Part of the reality television's appeal is due to its ability to place ordinary people in extraordinary situations. Reality television also has the potential to turn its participants into national celebrities, in talent and performance programmers such as Pp Idd' though frequently 'Survivor' and 'Big Brother' participants also reach some degree of celebrity. Some commentators have said that the name 'reality television' is an inaccurate description for several styles of programmes included in the genre. In competition – based programmes such as 'Survivor' and other special –living environment show like 'The Real World', the producers design the format of the show and control the day-to-day activities worked out. Producers specially select the participants, and use carefully designed scenarios, challenges, events and settings to encourage particular behavior and conflicts.

- (i) In the first sentence, the writer says, 'it is claimed' because
 - (a) He agrees with the statement
 - (b) everyone agrees with the statement
 - (c) Some people insist on the statement
 - (d) he wants to distance himself from the statement.
- (ii) Reality television
 - (a) Has been popular since the start of television
 - (b) has been popular since well before 2000
 - (c) has only been popular since 2000
 - (d) has been popular approximately since 2000
- (iii) Reality TV appeals to some because it.
 - (a) Shows eligible males dating women
 - (b) uses exotic locations
 - (c) shows average people in exceptional circumstances
 - (d) can turn ordinary people into celebrities.
- (iv) The participants in the reality show are
 - (a) Professional actors
 - (b) ordinary people
 - (c) comedians
 - (d) national celebrities.
- (vi) Why does the author feel that reality television is an inaccurate description?

(b) Rearrange the following sentences to make a meaningful paragraph.

- (i) In the west, Allied Forces had fought their way through southern Italy as far as Rome.
- (ii) In June 1944, Germany's military position in World War II appeared hopeless.
- (iii) In Britain, the task of amassing men and materials for the liberation of Northern Europe had completed.
- (iv) The Red Army was poised to drive the Nazis back through Poland.
- (v) The situation on the Eastern front was catastrophic.
