

AR18

CODE: 18HST101

SET-1

**ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)**

I B.Tech. I Semester Regular & Supplementary Examinations, December-2019

ENGLISH

(Common to CE, CSE, IT Branches)

Time: 3 Hours

Max Marks: 60

Answer ONE Question from each Unit.

All Questions Carry Equal Marks.

All parts of the Question must be answered at one place.

UNIT-I

1. a) What did the father ask Swami? What light does it reflect on his approach? 5M
- b) Write synonyms for the following words. 7M
 - i. Lure ii. Allegation iii. Protest iv. Obstinate v. Genial vi. Persist

(OR)

2. a) R K Narayan's stories are known for their humour. Cite instances of humour from the story *Father's Help*. 6M
- b) Write one-word substitutes for the following expressions. 6M
 - i) One who can either hand with ease
 - ii) One who feeds on human flesh
 - iii) One who attacks cherished ideas or traditional institutions
 - iv) Fear or hatred of books
 - v) A form of government in which power is held by the nobility
 - vi) A place where coins, medals, or tokens are made

UNIT-II

3. a) What influenced Kalam to move away and study in Schwartz High School? 6M
- b) Fill in the blanks with appropriate verb forms. 6M
 - i) I (write) _____ my new book for ten months.
 - ii) The little girl started to cry. She (lost) _____ her doll, and no one was able to find it for her.
 - iii) By the time Bob gets back from the war, his daughter (graduate) _____ from school.
 - iv) Bob(go) _____ to Korea thirteen times.
 - v) Rani (forget) _____ to carry the reports for the meet.
 - vi) A Rolling stone (gather) _____ no moss.

(OR)

4. a) What were the important lessons that Iyadurai Solomon taught Kalam? 6M
- b) Rewrite / Convert the following as directed. 6M
 - i) "Where are my glasses?" she said to Rachel. (into Indirect Speech)
 - ii) The man ordered me not to put my things there. (into direct speech)
 - iii) He must work very hard to win first prize. (into compound sentence)
 - iv) I am as strong as him. (into comparative degree)
 - v) Mumbai is richer than most other cities in India. (into superlative degree)
 - vi) Brutus stabbed Caesar. (into passive voice)

UNIT-III

5. a) What is Orwell's main point in Politics and the English Language? 6M
b) Correct the following sentences in connection with subject-verb agreement / noun-pronoun agreement / misplaced modifiers / articles / redundancies. 6M
- i. Either my mother or my father are coming to the meeting.
 - ii. The man with all the birds live on my street.
 - iii. I have read the book yesterday.
 - iv. Do you have some books?
 - v. The gold is getting more and more expensive every day.
 - vi. I am student here, isn't it?

(OR)

6. a) George Orwell's essay "Politics and the English Language" presents a detailed account of the ways that English is being corroded. Explain. 6M
b) Fill in the blanks of the below passage with appropriate prepositions. 6M
- I'm Peter and I live ——— Germany. In summer I like ——— travel to Italy, because of the weather and the people there. Last summer I took a plane ——— Munich to Rome. From the airport we went to our hotel by bus. We stopped at a small restaurant for a quick meal. The driver parked the bus ——— the restaurant. Nobody could find the bus and the driver, so we waited ——— the restaurant for one hour. The driver was walking ——— the small park near the restaurant which we did not know. So we were very angry with him. But my holidays were great. We sat round campfires and went dancing till the early mornings.

UNIT-IV

7. a) Sacrifice of ego was necessary for prosperity and peaceful co-existence of all living things on this earth. Explain? 6M
b) Write a letter to the editor on the topic "Role of youngsters in shaping India's future." 6M

(OR)

8. a) Write a critical summary of the play *Sacrifice* by Tagore. 6M
b) Write an e-mail to your younger brother, scolding him for having neglected his studies and explain value of education in life. 6M

UNIT-V

9. a) Analyze "Stopping by Woods on a Snowy Evening" by Robert Frost. 6M
b) Read the following passage carefully and answer the questions. 6M
- Many people like to eat pizza, but not everyone knows how to make it. Making the perfect pizza can be complicated, but there are lots of ways for you to make a more basic version at home. When you make pizza, you must begin with the crust. The crust can be hard to make. If you want to make the crust yourself, you will have to make dough using flour, water, and yeast. You will have to knead the dough with your hands. If you do not have enough time to do this, you can use a prepared crust that you buy from the store. After you have chosen your crust, you must then add the sauce. Making your own sauce from scratch can take a long time. You have to buy tomatoes, peel them, and then cook them with spices. If this sounds like too much work, you can also purchase jarred sauce from the store. Many jarred sauces taste almost as good as the kind you make at home. Now that you have your crust and your sauce, you need to add the cheese. Cheese comes from milk, which comes from cows. Do you have a cow in your backyard? Do you know how to milk the cow? Do you know how to turn that milk into cheese? If not, you might want to buy cheese from the grocery store instead of making it yourself. When you have the crust, sauce, and cheese ready, you can add other toppings. Some people like to put meat on their pizza, while other people like to add vegetables. Some people even like to add pineapple! The best part of making a pizza at home is that you can customize it by adding your own favorite ingredients.

Questions

- i) **The author's main purpose in writing this passage is to**
A. describe the history of pizza
B. teach a healthier way to make pizza
C. outline steps to make a basic pizza at home
D. provide tips about how to make your pizza especially delicious
- ii) **As used in passage, which word means the opposite of complicated?**
A. difficult
B. simple
C. easy
D. manageable
- iii) **As used in passage, which is the best synonym for purchase?**
A. forget
B. buy
C. ask
D. cook
- iv) **Author writes, "Many jarred sauces taste almost as good as the kind you make at home." The purpose of this statement is to**
A. clarify a later statement
B. provide an example
C. clarify an earlier statement
D. support the previous paragraph
- v) **As used in passage, which is the best definition for 'customize'?**
A. to make personal
B. to prepare for more than one
C. to eat while hot
D. to desire
- vi) **According to the author, which of the following ingredients do you need to have ready before you can add the toppings?**
I. crust
II. sauce
III. cheese
A. I only
B. I and II only
C. II and III only
D. I, II, and III

(OR)

10. a) What are the implications of the terms that the poet uses in his description of the woods? 6M
- b) Write an essay on "Violent video games can cause people to act violently in real life." in 500 words. 6M

UNIT-III

5. a) Explain the construction of DC machine with help of diagram. 6M
b) Derive the Emf equation of a dc generator 6M

(OR)

6. a) Explain the working of 3-point starter 6M
b) Determine the torque established by the armature of a 4-pole DC motor having 774 conductors, two parallel paths, 24 mWb of pole flux and the armature current is 50 A. 6M

UNIT-IV

7. a) Derive the expression for EMF of a transformer. 6M
b) A 100 kVA transformer has 400 turns on the primary and 80 turns on the secondary. The primary and secondary resistances are 0.3Ω and 0.01Ω respectively and the corresponding leakage reactance are 1.1Ω and 0.035Ω . The supply voltage is 2200V. Calculate: (i) equivalent impedance referred to primary and (ii) the voltage regulation and the secondary terminal voltage for full load having a power factor of 0.8 leading. 6M

(OR)

8. a) Explain OC and SC test on a single phase transformer and explain the procedure for determining the losses in a transformer. 6M
b) A 20 kVA, 2500/250 V, 50Hz, single-phase transformer gave the following test result: 6M
Open-circuit test: 250V, 1.5A, and 100 watts measured on the low voltage side
Short-circuit test: 100V, 8A, and 320 watts measured on the on high voltage side.
Calculate the efficiency of a transformer.

UNIT-V

9. a) Derive the expression of torque for a three phase induction motor. 6M
b) A 3-phase, 460V, 100hp, 60Hz 4-pole induction motor delivers rated power at a slip of 0.05. determine the: 6M
i) Synchronous speed.
ii) Speed of rotor.
iii) Frequency of rotor current
iv) Speed of stator flux relative to rotor structure.

(OR)

10. a) Explain the speed torque characteristics of 3 phase induction motor. 6M
b) Explain the principle of operation of 3-phase induction motor. 6M

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AR16

CODE: 16HS1001

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I B.Tech. I Semester Supplementary Examinations, December, 2019

ENGLISH

(Common to CE, EEE, ME, ECE, CSE & IT Branches)

Time: 3 Hours

Max Marks: 70

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the Question must be answered at one place

UNIT-I

1. (a) 'Problem Solving' and 'Decision Making' are important qualities of a team leader. Elaborate. 6M
- (b) Complete the following sentences using appropriate articles. 4x1=4M
 - I. Honest people speak ____ truth
 - II. Our sun is in fact ____ star in the universe.
 - III. I first met him ____ year ago.
 - IV. He looks as wise as ____ owl.
- (c) Give one word substitutes for the following expressions. 4x1=4M
 - I. A list of headings of the business to be transacted at a meeting
 - II. A person who looks at the brighter side of things
 - III. A hater of womankind
 - IV. One who acts against religion

(OR)

2. (a) Explain the importance of English language communication skills for professionals. 6M
- (b) Punctuate the following sentences. 4x1=4M
 - I. i like playing with my friends sandy sunny sameer
 - II. we went through the smoky mountains, near shimla on our way to leh
 - III. myfavourite soap is pears and my favourite toothpaste is pepsodent
 - IV. i'm a catholic and that's why i go to st.joseph's school
- (c) Convert the following sentences into Assertive / Interrogative / Imperative / Exclamatory sentence as directed. 4x1=4M
 - I. What a beautiful flower! (Change into Assertive)
 - II. He is truly noble. (Change into Exclamatory)
 - III. She is my friend. (Change into Interrogative)
 - IV. Give me a glass of water. (Change into Imperative)

UNIT-II

3. (a) 'How you will convince your friend to quit the use of plastic polythene bags. Argue your case by mentioning the many ill effects has on human lives, and how maintaining a healthy lifestyle is essential for human being and environment. Provide an argument in less than 300 words. 6M
- (b) Fill in the blanks with the correct verb forms. 4x1=4M
 - I. I _____ here since morning. (waiting)
 - II. Where _____ the sun rise? (be)
 - III. We _____ the money on the 15th.(need)
 - IV. She _____ half of her time travelling. (spend)
- (c) Write at least one synonym for each word below. 4x1=4M
 - i. Staunch ii. Amenable iii. Initiated iv. Springingly

(OR)

4. (a) Do you think vegetarianism is good for staying healthy? Discuss in 300 words. 6M
 (b) Complete the following paragraph using the words given below. 4x1=4M
 upcoming, science, systems, inspired

Nanotechnology is the 1_____of 'miniature'. It is the engineering of Working 2_____at the molecular level. Due to advancement in technology area, nanotechnology is the 3_____ field that interests many people. From the clothes and sunglasses we wear to computer drives and even cleaning products, nanotechnology which is 4_____by natural world, plays a big part in manufacturing many familiar products of our daily use. It enhances our sunscreen's ability to reflect harmful ultra violet radiation, armours our designer shades against unwanted scratches. It increases the capacity of our computer gadgets for storage of data and photos for our use.

- (c) Write at least one antonym for each word below. 4x1=4M
 i. Responsive ii. Elimination iii. Demonstrate iv. Elevate

UNIT-III

5. (a) Write a conversation / dialogue between two friends regarding 'solution to plastic pollution' 6M
 (b) Arrange jumbled letters of each word in order. 4x1=4M
 i. roselm ii. hcrnoci iii. wdnor iv. lataep
 (c) Read the following passage and answer all the questions. 4x1=4M

Primitive man was probably more concerned with fire as a source of warmth and as a means of cooking food than as a source of light. Before he discovered less laborious ways of making fire, he had to preserve it, and whenever he went on a journey he carried a firebrand with him. His discovery that the firebrand, from which the torch may very well have developed, could be used for illumination was probably incidental to the primary purpose of preserving a flame.

Lamps, too, probably developed by accident. Early man may have had his first conception of a lamp while watching a twig or fibre burning in the molten fat dropped from a roasting carcass. All he had to do was to fashion a vessel to contain fat and float a lighted reed in it. Such lamps, which were made of hollowed stones or sea shells, have persisted in the identical form up to quite recent times.

Answer the following questions.

1. Primitive man's most important use for the fire was
2. The firebrand was used to
3. By 'primary' the author means
4. Early lamps were made by

(OR)

6. (a) Write a conversation / dialogue between parent and teacher regarding misusing mobile phone in the classroom by the student. 6M
 (b) Fill in the blanks with appropriate auxiliaries. 4x1=4M
 I. We eat so that we _____ live.
 II. You _____ go only if you have permission.
 III. He was so tired that he _____ hardly stand.
 IV. He went to England in order that he _____ become a barrister.

- (c) Read the following passage and answer all the questions. 4x1=4M

The history of literature really began long before man learned to write. Dancing was the earliest of the arts. The man danced for joy around his primitive campfire after the defeat and slaughter of his enemy. He yelled and shouted as he danced and gradually the yells and shouts became coherent and caught the measure of the dance and thus the first war song was sung. As the idea of God developed prayers were framed. The songs and prayers became traditional and were repeated from one generation to another, each generation adding something of its own.

As the man slowly grew more civilized, he was compelled to invent some method of writing by three urgent necessities. There were certain things that it was dangerous to forget and which, therefore, had to be recorded. It was often necessary to communicate with persons who were some distance away and it was necessary to protect one's property by making tools, cattle and so on, in some distinctive manner. So man taught himself to write and have learned to write purely for utilitarian reasons he used this new method for preserving his war songs and his prayers. Of course, among these ancient peoples, there were only a very few individuals who learned to write, and only a few could read what was written.

Answer the following questions.

1. Before man invented writing
2. As for the war songs and prayers each generation
3. The first war-song
4. The word 'measure' in the context of the passage means

UNIT-IV

7. (a) Write a letter to your head of the department, requesting to give permission to attend a two-day national workshop at Chennai. You need to explain the importance of the workshop, dates and entry fee. 6M
- (b) Fill in the blanks with appropriate prepositions. 4x1=4M
- I. I commenced work _____ 1st May.
 - II. We walked _____ the end of the street.
 - III. The child has been missing _____ yesterday.
 - IV. He travelled seventy miles _____ two hours.
- (c) Change the following statements into queries using question tags. 4x1=4M
- I. She speaks English well?
 - II. He has left?
 - III. You will have some tea?
 - IV. I need not stay long?

(OR)

8. (a) Write an email to your local health inspector, requesting him/her to conduct health awareness camp in your locality. Explain the problems faced by the public. 6M
- (b) Join each pair of the following sentences by means of a suitable conjunction. 4x1=4M
- I. My brother is ill. My sister is well.
 - II. He sells fruit, vegetables.
 - III. He did not pass the test. He worked hard.
 - IV. I respect him. He is an honest man.

- (c) Pick up suitable phrasal verb for each blank. 4x1=4M
- i. His father always taught him not to _____ those people with less. (look up to / look down on)
 - ii. Stop complaining and _____ your work! (get on with / get over)
 - iii. The boss wants you to _____ your figures for this month to him. (hand out / hand in)
 - iv. We're going to have to _____ our trip to Spain until September. (put up/ put off)

UNIT-V

9. (a) Write a short note on the importance of "book reading" and how it would improve the knowledge of the person in 300 words. 6M
- (b) Write the answer as directed and rewrite the following sentences. 4x1=4M
- I. The parrots dance and entertained the crowd. (present participle)
 - II. Travel might satisfy your desire for new experiences. (use gerund)
 - III. The place was noisy and hears anything properly. (Combine sentences using too- to).
 - IV. In winter the days are short. They are also cold and dark. (Combine sentences using not only-but also).
- (c) Correct the following sentences 4x1=4M
- I. I have seen him yesterday.
 - II. He is sleeping for two hours.
 - III. I had spoken to them about my holiday.
 - IV. Neither of the boys have returned.
- (OR)**
10. (a) "Child marriage and Sridhan" which of the two issues do you feel strongly about? Choose either topic and write an essay in 300 words. 6M
- (b) Convert the following statements into questions. 4x1=4M
- I. She is working on a new project.
 - II. He has returned from the US.
 - III. Maya has passed the test.
 - IV. Susan enjoys reading
- (c) Rewrite the following as directed. 4x1=4M
- i. He gave me a present? (Change the voice)
 - ii. Iron is more useful than any other metal. (Write in superlative degree)
 - iii. "Don't waste your money" she said. (Write in indirect speech)
 - iv. I have time. I would go shopping with you. (Write using *If*)