

Model Question Paper

B. E. / B.Tech. Degree Examination, 2013

First Semester HS6151 – Technical English I

(Common to all branches) (Regulation 2013)

Time: Three hours

Maximum: 100 marks

Answer ALL Questions

PART – ‘A’ (10 x 2 = 20)

1. In each of the following questions, out of the four alternatives, choose the one which can be substituted for the given expression: (4 x ½ = 2)

a) Life history of a person written by another

A) bibliography B) autobiography C) memoir D) biography

b) A person who has no money to pay off his debt

A) debtor B) beggar C) pauper D) insolvent

c) A person who does not believe in religion

A) pagan B) rationalist C) philatelist D) atheist

D) An extremely deep crack or opening in the ground

A) chasm B) aperture C) pit D) ditch

2. Fill in the blanks with the appropriate forms of the words given: (8 x ¼ = 2)

Verb	Noun	Adjective
	Appreciation	
		Different
		Manageable
Apologise		

3. Use the suitable compound noun from the list of words to complete the following sentences: (4 x ½ = 2)

sun port melon ball cloth rain wash coat
basket flower pass water

- a) It is raining now. Don't forget to take the -----, when you want to go out.
b) She roasted the ----- after the plants were grown.
c) I need a ----- to travel to a foreign country, without which I can't even board the flight.
d) ----- is my favourite fruit, although my family members don't like it.

4. Write a single sentence definition for any TWO of the following terms: (2 x 1 = 2)

- a) database b) software c) fuse d) screwdriver

5. Give antonyms of the following words by adding suitable negative prefixes :(4 x ½ = 2)

- a) consistent b) nutrition c) legible d) appropriate

6. Fill in the blanks with suitable tense forms of the verbs given in brackets:(4 x ½ = 2)

Stephen Hawking is one of the most brilliant theoretical physicists. He ----- (be) also a popular writer. His first book, "A Brief History of Time" ----- (publish) in 1988 and ----- (become) an international best seller. In it, he ----- (explain) about the birth and death of the universe to the lay person.

7. Choose the correct form of verb that agrees with the subject: (4 x ½ = 2)

- a) The Minister, together with his wife, ----- (greet, greets) the press cordially.
b) The players, as well as the captain, ----- (want, wants) to win.
c) Neither the teacher nor the students ----- (seem, seems) to understand this assignment.
d) One of my teachers ----- (have, has) written a letter of recommendation for me.

8. Rewrite the following short conversation in the form of a reported speech: (4 x ½ = 2)

Joseph : Good Morning sir. I need loan from your bank.

Manager : May I know why you need loan?

Joseph: I have a plan to open a medical shop in my hometown. Also, I am quite familiar with this business.

Manager: O.K. Take this form and apply for loan. You will get a reply after a week.

9. Edit the following passage by correcting the mistakes in spelling, grammar and punctuation: (8 x ¼ = 2)

ants are social insekts and live in large, well-planned colonies. Some of these colonies contain thousands of ants there are generally three kinds of ants in an ant colony – a queen, males and workers. The queen lay eggs all her adult life. The worker ants are the ones who does all the work, like keeping the nest clean, getting food and looking after the young ones. The larger ones defend the colony if there is any threat from outside

10. Change the statements to questions using the question word in parenthesis . (4 x ½ = 2)

- a) The children are very sincere and they do their homework at night. (when)
b) I feel so tired since I have been waiting here for two hours. (how long)
c) I didn't inform her about his arrival because she kept her mobile phone in the switch off mode. (why)
d) My friend, Sam, is a rich man and he is a Software engineering in HCL. (what)

PART – ‘B’ (5 x 16 = 80 marks)

11. i) Read the passage and answer the questions given below:

Ethanol is a renewable, domestically produced transportation fuel. Whether used in low-level blends, such as E10 (10% ethanol, 90% gasoline), or in E85 (a gasoline-ethanol blend containing 51% to 83% ethanol, depending on geography and season), ethanol helps reduce imported oil and greenhouse gas emissions. Like any alternative fuel, there are some considerations to take into account when contemplating the use of ethanol.

About two-thirds of U.S. petroleum demand is in the transportation sector. Approximately half of U.S. petroleum is imported. Depending heavily on foreign petroleum supplies puts the United States at risk for trade deficits, supply disruption, and price changes. The Renewable Fuels Association's *2012 Ethanol Industry Outlook* calculated that in 2011 the ethanol industry replaced the gasoline produced from more than 485 million barrels of imported oil. Ethanol represents 25% of domestically produced and refined motor fuel for gasoline engines.

A gallon of ethanol contains less energy than a gallon of gasoline. The result is lower fuel economy than a gallon of gasoline. The amount of energy difference varies depending on the blend. For example, E85 has about 27% less energy per gallon than gasoline (mileage penalty lessens as ethanol content decreases). However, because ethanol is a high-octane fuel, it offers increased vehicle power and performance.

Ethanol production creates jobs in rural areas where employment opportunities are needed. According to Renewable Fuels Association, ethanol production in 2011 supported more than 400,000 jobs across the country, \$42.4 billion to the gross domestic product, and \$29.9 billion in household income.

The carbon dioxide released when ethanol is burned is balanced by the carbon dioxide captured when the crops are grown to make ethanol. This differs from petroleum, which is made from plants that grew millions of years ago. On a life cycle analysis basis, corn-based ethanol production and use reduces greenhouse gas emissions (GHGs) by up to 52% compared to gasoline production and use. Cellulosic ethanol use could reduce GHGs by as much as 86%.

Low-level ethanol blends are already in more than 95% of the gasoline sold in the United States. Low-level blends require no special fueling equipment and can be used in any gasoline vehicle. E85 fueling equipment is only slightly different than petroleum fueling equipment, but the costs are higher. FFVs are available nationwide as standard equipment with no incremental costs, making them an affordable alternative fuel vehicle option. However, because most U.S. ethanol plants are concentrated in the Midwest, fueling stations offering E85 are predominately located in the Corn Belt states. More and more states are installing E85 every day. Find E85 fuelling stations in your area.

Select the correct response for the following questions based on the passage: (8 x 1 = 8)

- 1) Ethanol is environment friendly because its use
- A) reduces greenhouse emissions.
 - B) cleans the air.
 - C) kills bacteria.
 - D) activates the growth of the plants.

- 2) The main idea of the passage is that
 - A) ethanol production is not a complicated process.
 - B) ethanol production is the only solution to the problems of the rural community.
 - C) US shows little interest in the production of ethanol.
 - D) ethanol is the viable solution to the growing needs of the transportation industry.
- 3) High-octane fuel means that
 - A) it ensures high speed of the vehicle.
 - B) it ensures higher performance of the engine.
 - C) it protects the vehicles from accidents.
 - D) it has no pollutants.
- 4) According to the passage, which of the following is true?
 - A) E10 is the brand name of a car
 - B) E10 is the low level ethanol blend
 - C) E10 is not a transportation fuel
 - D) E10 is available in almost all fueling stations in US
- 5) The word 'contemplate' in the first paragraph refers to
 - A) formulating a policy for ethanol production
 - B) designing a process for ethanol
 - C) thinking deeply about the choice of ethanol
 - D) worrying about the customers
- 6) Which one of the following does not need special fueling equipment in vehicles?
 - A) E85
 - B) E10
 - C) E20
 - D) E25
- 7) What do you infer from the second paragraph of the passage?
 - A) Ethanol production in US can reduce a considerable percentage of oil imports.
 - B) The import of petroleum from other countries has no impact on US economy.
 - C) US can achieve self-sufficiency in oil production.
 - D) US has lost its prestige by importing petroleum for domestic use.
- 8) What is the attitude of the writer towards ethanol production?
 - A) Ethanol production will solve the problems of the people in urban areas.
 - B) It is a boon to the poverty stricken people.
 - C) It is an expensive process.
 - D) It is useful in view of the benefits like clean environment, employment opportunities, and better economic situation.

11. ii) Read the excerpts from an interview with the former President of India APJ Abdul Kalam and answer the questions given below:

Today, greatness is largely measured by material wealth, and this in turn brings about discontent in society. Do you feel there is a need for us to shun materialism as your father and elders did?

I studied till High School in British India. In 1947, we got freedom and I started living in India's India. I have seen various transformations in society, be it the economy or the value system. While our economy is developing, we need citizens with ethics and a value system. For the last 10 years I've been promoting an idea called Evolution of Enlightened Citizens. It has three dimensions. One is education with value system. This comes from the family, or may be from a primary school teacher. After all, the evolution of enlightened

citizens is essential for India and the world. Second, the dimension is economic prosperity. Third, religion should transform into a spiritual force. I advocate these three.

I have given lectures in our Parliament, addressed the European parliament of 23 nations, a pan-African parliament of 53 nations, and the Korean parliament. I am not saying the Indian value system should be taken to other countries. They also have great leaders and traditions based on their value system. I believe that one's value system, the joint family system, economic growth and different religions transforming into a spiritual force are vital. That's why I have shared this at various interactive forums.

Your work gives pre-eminence to inspiring and changing the thought pattern of the youth. However, as we see the country deluged with problems such as hunger, disease, deteriorating environment and unfit living conditions, how long will it take to see change, or is it already visible?

Thought is the seed of action. Thought is as ancient as Socrates. Tiruvalluvar, 2,200 years ago, has also said that...That's why I proposed in Parliament that we need India Vision 2020. That is, by 2020, India should become economically developed. Even now, it's not too late. Parliament should consider how it can activate the vision for the nation, so prosperity can be aimed at. Our priority should be to use PURA – 'providing urban amenities in rural areas'. Our farmers are producing 250 million tonnes of food. But we don't do value addition, which means greater export potential. We are leading producers of fruits and vegetables but we don't process these as juice or packaged food. And third, of course, small scale industries which are spread across the country.

Are you in touch with the PURA projects, and are these showing results?

I have seen in Madhya Pradesh, the Chitrakoot PURA founded by NanajiDeshmukh. He is a pioneer and they are doing very well, more than 500 villages are connected, and there is prosperity. Another one I saw in Maharashtra, Warana PURA. There is no poverty there, because the cooperative movement is doing very well. And the third I have seen in Tamil Nadu at Vallam, Thanjavur. I am in touch with these three, and visit them often. But apart from that, the Government of India has started a few PURAs with public-private participation. The number of PURAs is increasing. But it has to be fast. After all, there are 600,000 villages; we have to establish 7000 PURAs in 10-15 years' time. We have less than 100.

Your writing reflects great contentment, yet this never stops you from action.

God helps only those who work hard. There is nothing like contentment. Success is not the ultimate aim. However, at no time should you allow your problems to overwhelm you. I can't say that I am content, because I meet 80,000 to 100,000 youth a month. I know their dreams, their pain. A nation without a vision dies. Parliament has to give this vision.

Write short answers for the following questions:

(4 x 2 = 8)

- 1) Kalam says: 'A nation without vision dies.' Comment on this statement.
- 2) How do PURA projects make the country achieve economic prosperity?
- 3) India Vision 2020 is only a dream which cannot be achieved. Do you agree with this view? Justify your view.
- 4) What will be the future of India after a period of ten years?

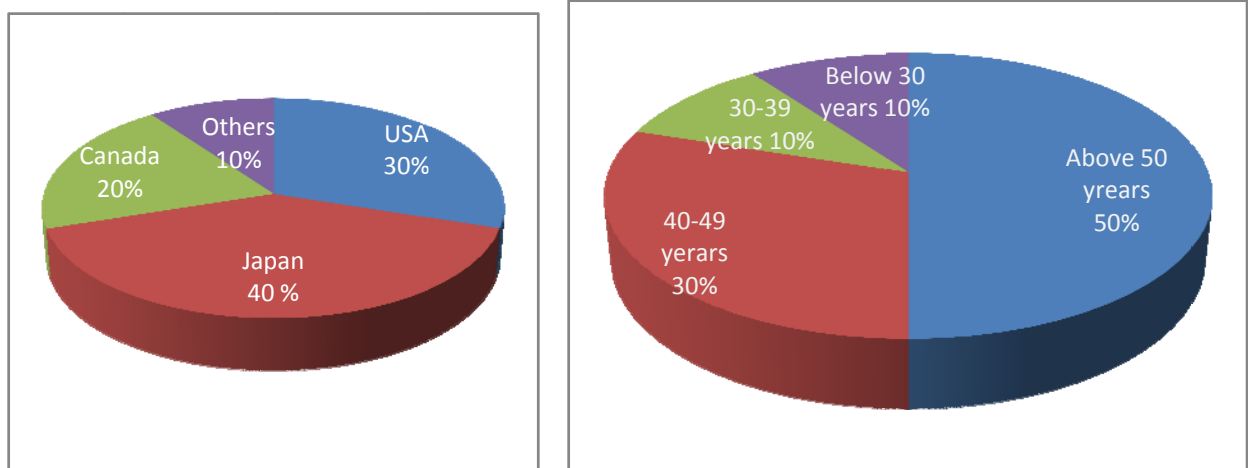
12. a) Pickpocketing is a major nuisance to the users of public transport. The pickpockets steal money or other valuables from them. Write a set of eight instructions to avoid pickpockets while travelling. (16 marks)

(Or)

b) There are many social problems such as poverty and hunger in India, which need to be solved. Write a set of eight recommendations to solve these problems. (16 marks)

13. a) The following pie charts exhibit the distribution of the overseas tourist traffic from India. The two charts show the tourist distribution by country and the age profiles of the tourists respectively. Write a paragraph based on the details found in the charts: (16 marks)

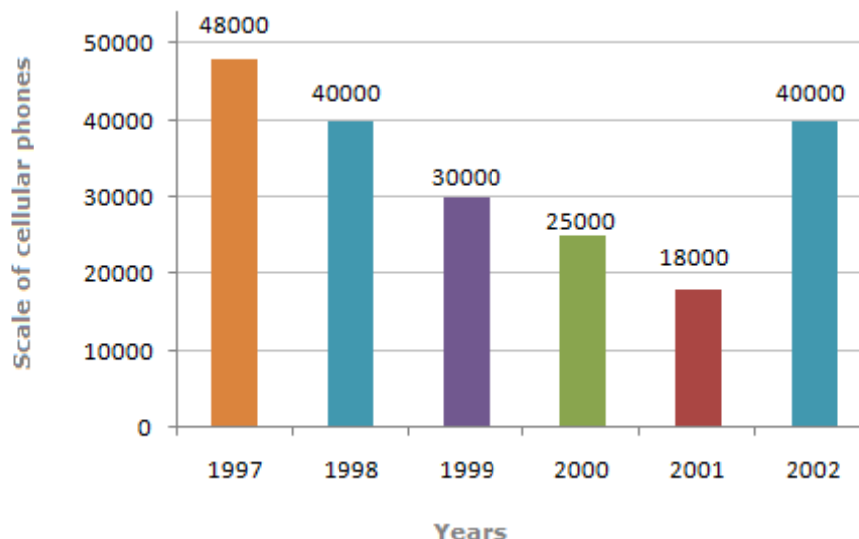
Distribution of Overseas Tourist Traffic from India



(Or)

b) The bar chart given below shows the sale of cellular phones from 1997 to 2002. Write a paragraph interpreting the details found in the chart: (16 marks)

Sale of Cellular Phones



14.a) Recall the memories of your first day at college and write a letter to your friend about this memorable day with a focus on inaugural function, classes, campus visit and so on. (16 marks)

(Or)

b) Imagine that your friend likes to spend the weekend by watching a film or reading a book. He needs your suggestions related to the choice of book or film. Write a letter to your friend about a book/film that you enjoyed much. In your letter, explain the reasons for your choice and discuss both the strengths and weaknesses of that book/film. (16 marks)

15. a) Internet is extensively used in various fields. But the recent cybercrimes make the people rethink about the security measures. Write an essay not exceeding 300 words discussing the types of cybercrime and relevant security measures. (16 marks)

(Or)

b) Electronic waste is a major problem in most of the countries since it has become a major cause for different diseases. Write an essay not exceeding 300 words on health effects of electronic wastes. (16 marks)