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**Question Paper Code : 31479**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Second Semester

Mechanical Engineering

HS 2161/HS 21/080020003 — TECHNICAL ENGLISH – II

(Common to all branches)

(Regulation 2008)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. In each of the following sentences one word has been italicised. Choose, from the four alternatives, the word that conveys more or less the same meaning :
  - (a) Large tonnage of Cassava leaves are discarded as wastes: (4 × ½ = 2)
    - (i) thrown away
    - (ii) treated
    - (iii) consumed
    - (iv) used
  - (b) The relatives originally financed him suffered financial vicissitudes.
    - (i) profits
    - (ii) gains
    - (iii) loss
    - (iv) misfortunes
  - (c) Dr. Salim Ali is one of the pioneer Indian ornithologists and environmentalists.
    - (i) expert
    - (ii) forerunner
    - (iii) specialist
    - (iv) all of them

- (d) The advent of IC engine and electric motor ended the use of pedal power.
- (i) importance                      (ii) application  
(iii) coming                          (iv) use

2. Add suitable prefix to mean the words given against them : (4 × ½ = 2)

- (a) \_\_\_\_\_ supporting : able to support financially  
(b) \_\_\_\_\_ sonic : (sound waves) just below the level of audibility.  
(c) \_\_\_\_\_ national : (involving a number of nations)  
(d) \_\_\_\_\_ standard : (not having the required or normal quality)

3. Fill in the blanks with appropriate forms of words : (4 × ½ = 2)

ADJECTIVE	NOUN	PERSON CONCERNED
		Speculator
	Astronomy	
Chemical		
	Technocracy	

4. Write the purpose of statements using the following hints : (2 × 1 = 2)

- (a) A pyrometer \_\_\_\_\_ measure high temperature.  
(b) A thermostat \_\_\_\_\_ to maintain constant temperature.

Eg. A safety valve \_\_\_\_\_ to allow excess pressure.

The purpose of a safety valve is to allow excess pressure.

5. Change into impersonal passive : (2 × 1 = 2)

- (a) We should lubricate the bearings to avoid overheating.  
(b) The operator generates the heat for fusion welding in several ways.

6. Use any TWO of the following words in a sentence of your own, as a noun and as a verb : (2 × 1 = 2)

- (a) Compliment  
(b) Object  
(c) Refuse.

7. Give the numerical expressions for the following : (4 × ½ =2)  
 (e.g.) a journey of twenty miles Ans : a 20-mile journey.  
 (a) a project grant of five lakhs.  
 (b) a tank with a capacity of two thousand litres.  
 (c) a workshop lasting for fifteen days.  
 (d) an inspection team consisting of five members.
8. Fill in the blanks with suitable preposition : (4 × ½ =2)  
 The doctors were congratulated \_\_\_\_\_ their success \_\_\_\_\_ pulse polio immunisation project. The CMO's were conferred \_\_\_\_\_ gold medals \_\_\_\_\_ meticulous efforts and guidance.
9. Imagine that you have been given an important assignment and you are asked to mail your acceptance/decline at once. Unfortunately, you could not take it up due to your health problem. Send an e-mail declining the assignment to xyzsoftlink @ g mail.com. (2)
10. Fill in the blanks with suitable sequence words : (4 × ½ =2)  
 There are four steps involved in starting a car. \_\_\_\_\_<sup>1</sup>\_\_\_\_\_ one must insert the ignition key. \_\_\_\_\_<sup>2</sup>\_\_\_\_\_ he must see whether the car is in neutral position. \_\_\_\_\_<sup>3</sup>\_\_\_\_\_ he can start the car switching on the ignition key. \_\_\_\_\_<sup>4</sup>\_\_\_\_\_ by changing the gear and releasing clutch slowly, move the car.

PART B — (5 × 16 = 80 marks)

11. Read the following passage and answer the questions that follow :
- The third great defect of our civilization is that it does not know what to do with its knowledge. Science has given us powers fit for the Gods, yet we use them like small children. For example, we do not know how to manage our machines. Machines were made to be man's servants. Yet, he has grown so dependent on them that they are in a fair way becoming his masters. Already most men spend most of their lives looking after and waiting upon machines. And machines are very stern masters. They must be fed with coal, and given petrol to drink, and oil to wash with, and they must be kept at the right temperature. And if they do not get their meals when they expect them, they grow sulky and refuse to work, or burst with rage, and blow up, cause ruin and destruction all around them. So, we have to wait upon them very attentively and do all that we can to keep them in good temper. Already we find it very difficult either to work or play without the machines, and a time may come when they will rule us altogether, just as we rule the animals.

And this brings me to the point at which I ask "what do we do all the time which the machines have saved for us, and the new energy they have given us?" *On the whole*, it must be admitted, we do very little. For the most part we use our time and energy to make more and better machines; but more and better machines will only give us still more time and still more energy, and what are we to do with them?. The answer, I think, is that we should try to become more civilized. For the machines themselves, and the power which the machines have given us, is not civilization but *aids* to civilization. But you will remember that we agreed at the beginning that being civilized meant making and liking beautiful things, thinking freely, loving rightly, and maintaining justice equally between man and man. Man has a better chance today to do these things than he ever had before; he has more energy, more time, less to fear and less to fight against. If he will give his time and energy which his machines have won for him to making more beautiful things, finding out more and more about the universe, removing the causes to the quarrels between nations, and discovering how to prevent poverty, then I think our civilization would undoubtedly be greater, as it would be the most lasting than has ever been.

(a) Choose the correct answer : (5 × 1 = 5)

- (i) The advantage of having so many machines is
- (1) Man has got the power of Gods
  - (2) Man has machines to look after him
  - (3) Man has more time and energy
  - (4) Man has learnt to look after machines.
- (ii) How has man made machines his master?
- (1) By using them like children
  - (2) By becoming dependent on them
  - (3) By spending money on them
  - (4) By looking after them and becoming their servant.
- (iii) We use the time saved by the machines for
- (1) New areas of activity
  - (2) Other ways of having fun
  - (3) Making new machines
  - (4) Doing nothing.

- (iv) "Being civilized" means
- (1) Maintaining justice
  - (2) Thinking freely
  - (3) Making beautiful things
  - (4) All of the above
- (v) The great defect of our civilization discussed in the above passage is
- (1) Not having enough knowledge
  - (2) Making too many children
  - (3) Having too much free time
  - (4) Not knowing what to do with its knowledge
- (b) Say whether the following statements are TRUE or FALSE (6 × 1 = 6)
- (i) Man has become dependent on machines.
  - (ii) When the machines are looked after, they refuse to work.
  - (iii) We never handle the machines properly.
  - (iv) Man is spending his time in useful pursuits like preventing poverty.
  - (v) Machines need to be looked after well.
  - (vi) Machines are on their way to becoming masters.
- (c) Choose the word/phrase that best fits words as they are used in the context. (5 × 1 = 5)
- (i) Sulky
    - (1) slow
    - (2) fast
    - (3) crumbled
    - (4) tired
  - (ii) Blow up
    - (1) burn
    - (2) go off
    - (3) mixed up
    - (4) hot
  - (iii) Pick out the opposite of 'dependent' from the second paragraph.
  - (iv) On the whole
    - (1) considering nothing
    - (2) in parts
    - (3) at large
    - (4) by and large.

(v) aids

(1) assistance (2) disease

(3) gift (4) outline.

12. (a) XYZ software Solutions Pvt.Ltd.,121, Patel Street, Hi-Tech City, Hyderabad., requires engineering graduates. Qualification: BE; desirable: C,C++. Apply to the Manager (HR) with Résumé.(You are XXX, 122, YYY,Chennai-105)

Or

- (b) Imagine that you bought the Latest laptop. Unfortunately, it developed a technical snag. You are unable to store data. Write a complaint letter to the Manager (Marketing) requesting him to replace it. Also give the entire details of purchase, terms and conditions warranty etc. (You are XXX, 122, YYY, Chennai-105).
13. (a) Imagine that you are a Safety Engineer of Nuclear Power plant. There was an explosion due to the failure of control rods. Most of lives are severely affected due to the radiation. The Chairman of the Atomic Energy Commission has asked you to submit a detailed report on the disaster together with your recommendation to avert such a disaster in future. Prepare a report accordingly.

Or

- (b) Write a set of eight recommendations to tide over the power cut during summer.
14. (a) Imagine that you have to attend an interview in a Core/ Software company in Mumbai. Make an eight-item check list with a proper title.

Or

- (b) Rearrange the following sentences in proper logical order:
- (i) Online stores never close-they are open 24 hours a day.
- (ii) There are many sites that offer comparison of charts.
- (iii) The first step in the process of buying is to decide to buy the product.

- (iv) After the final decision, online payment should be done with credit card or pay pal or any other secure payment methods.
- (v) Online shopping is the process of buying and selling goods on the internet.
- (vi) This is done by visiting the stores websites that offer comparison of prices and features.
- (vii) Next to initial decision, one should buy the kind of product he wants to buy.
- (viii) There are a lot of online stores to purchase and sell goods online.

15. (a) Write in about 250 words "the negative influence and the positive aspects of internet".

Or

(b) Write in about 250 words "the benefits and drawbacks of Nuclear energy".