Question Paper Code : X 67604

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Second Semester

Mechanical Engineering

HS 1151 – TECHNICAL ENGLISH – II

(Common to Electrical and Electronics Engineering, Electronics and Communication Engineering, Civil Engineering, Computer Science and Engineering, Electronics and Instrumentation Engineering and Information Technology)

(Regulations 2008)

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions

PART – A   (10×2=20 Marks)

1. Match the words in Column A with their antonyms in Column B :   **(4×½=2)**

Column A	Column B
a) Deficit	i) Warm
b) Frigid	ii) Surplus
c) Glean	iii) Normal
d) Queer	iv) Scatter

2. Write two sentences for each word given below using as verb in one sentence and noun in another sentence.   **(2×1=2)**
   a) Picture
   b) Heat.

3. Write purpose statements for two of the following :   **(2×1=2)**
   a) A computer mouse
   b) A taxi
   c) A pencil

4. Use two of the following words in sentences of your own and show the difference in stress shift.   **(2×1=2)**
   a) Conduct
   b) Record
   c) Perfect

5. Fill in the blanks with suitable prepositions : **(4×½=2)**

   a) Thank you _____ writing _____ me _____ your book.

   b) This is the person _____ whom I got this information.

6. Fill in the blanks with suitable conjunctions. **(4×½=2)**

   a) She was kind _____ gentle.

   b) He tried hard _____ was unsuccessful.

   c) You must improve your sales _____ you will lose your job.

   d) It was getting dark _____ we went home.

7. Fill in the blanks with suitable articles. **(2×1=2)**

   a) Office 2010 is _____ latest MS Office.

   b) First of all, any Minister must be _____ MLA or MP.

8. Make sentences expressing purposes using the given hints. **(2×1=2)**
   Eg. Aerial : to receive broadcast signals.
   The purpose of an aerial is to receive broadcast signals.

   a) Safety valve : to release excess pressure.

   b) Fly overs : to reduce traffic congestion.

9. Frame Yes/No questions for the following sentences : **(2×1=2)**

   a) Pranav has been working on the project all night long.

   b) Tom with his family went to the swimming pool.

10. Expand the following acronyms : **(4×½=2)**

    a) ONGC.

    b) IBM.

    c) RADAR.

    d) FIFA.

PART – B   **(5×16=80 Marks)**

11. a) Read the following passage carefully and answer the questions given at the end of it.

After inventing dynamite, Swedish-born Alfred Nobel became a very rich man. However, he foresaw its universally destructive powers too late. Nobel preferred not to be remembered as the inventor of dynamite, so in 1895 just two weeks before his death, he created a fund to be used for awarding prizes to people who had made worthwhile contributions to humanity. Originally, there were five awards : literature, physics, chemistry, medicine and peace. Economics was added in 1968, just sixty seven years after the first awards ceremony Nobel's original legacy of nine million dollars was invested and the interest on this sum is used for the awards which vary from $ 30,000 to $ 1,25,000.

During December 10th of every year (the anniversary of Nobel's death) the awards (gold medal, illuminated diploma and money) are presented to the winners. Sometimes politics plays an important role in the judges' decisions. Americans have won numerous science awards, but relatively few literature prizes. No awards were presented from 1940 to 1942 at the beginning of World War II. Some people have won two prizes, but this is rare; others have shared their prizes.

i) Choose the best answer :   **(5×1=5)**

1) The word 'foresaw' in sentence 2 is nearest in meaning to

   A) Prevailed   B) Postponed

   C) Prevented   D) Predicted

2) The Nobel Prize was established in order to

   A) recognize worthwhile contributions to the humanity

   B) resolve political differences

   C) honour the inventor of dynamite

   D) spend money

3) In which area have Americans received the most awards ?

   A) Literature   B) Peace

   C) Economics   D) Science

4) All of the following statements are true except

   A) Awards vary in monetary value

   B) Ceremonies are held on December 10 to commemorate Nobel's invention

   C) Politics plays an important role in selecting the winners

   D) A few individuals have won 2 awards

5) It is implied that Nobel's profession was in

   A) Economics   B) Medicine

   C) Literature   D) Science

ii) Answer the following questions. **(4×1=4)**
   1) What does the word 'worthwhile' mean ?
   2) How much money did Nobel leave for the prizes ?
   3) What is the main idea of this passage ?
   4) Give a suitable title to the passage.

iii) Give the contextual meanings of the following words. **(4×1=4)**
   1) Legacy
   2) Universally
   3) Destructive
   4) Contributions.

iv) State whether the following sentences are true or false. **(3×1=3)**
   1) Alfred Nobel foresaw dynamite's universally destructive powers early.
   2) Americans have won many prizes for literature.
   3) Awards were presented continuously.

(OR)

b) Read the following passage carefully and make notes: **(16)**

The energy transmitted from one body to another in the form of rays or radiations is called radiant energy. Cosmic rays, gamma rays, X-rays, ultra-violet rays, visible rays, infrared rays, radio waves and heat are examples of radiant energy. These waves are associated with electric as well as magnetic fields. Thus, these radiations are called electromagnetic radiation. The radiation important to us, is that form the sun, the earth and the atmosphere lying within the ultraviolet, visible and infrared spectral regions.

There are five important characteristics associated with each wave. These include wavelength, frequency, velocity, wave number and amplitude. Wavelength is the distance between two adjacent crests or troughs in a particular wave. It is denoted by Greek letter lambda. Frequency is defined as the number of waves or cycles that pass through a given point in one second. It is denoted by the Greek letter nu[v]. Velocity is the distance traveled by a wave in one second. It is denoted by the letter 'c'. Wave number is the reciprocal of wavelength and is defined as the number of waves per centimeter. Finally, amplitude is the height of crest or trough of a wave.

12. a) Write a letter to the editor of a newspaper in your region about the ragging menace in educational institutions and suggest value ways to prevent them. **(1×16=16)**

(OR)

b) The Chief Engineer, Neyveli Lignite Corporation, Neyveli, Tamil Nadu inviting application for the post of Assistant Engineers for the Post Graduate students of Mechanical Engineering. Write a job application with relevant curriculum Vitae. **(1×16=16)**

13. a) Imagine that you are a second year student in the petro-chemical department. You are planning to go for an in-plant training for one month at Harson and Co. Petro-Chemicals, Pvt, Ltd., Chennai. Write a letter to Human Resource Manager seeking permission for the training.

(OR)

b) Read the following advertisement published in *The Hindu* dated 10-11-2013 and apply for the post of Deputy Manager, Operations. Enclose a copy of your bio-data with the application.

Zango chemicals, a multinational company, requires the following personnel :	
Designation	: Deputy Manager, Operations
Educational Qualification	: B.E./B.Tech. in Petro-chemical Engineering
Experience	: 10 to 12 years in relevant industries
Apply to	: Human Resource Department
	Zango Chemicals Pvt. Ltd.
	17/11, Net Wheel Road
	Chennai.

14. a) Imagine that you are going to organise a Blood-donation camp. Prepare a checklist of eight important items. **(1×16=16)**

(OR)

b) Imagine that you are the Safety Engineer of a tyre industry. A fire broke out destroying part of the unit due to short circuit. Write a report on the fire accident to the General Manager, PKM Tyres, Pvt Lt., Ambattur, Chennai.

15. Respond to one of the job advertisements below. Write a suitable covering letter and a résumé.

a) Mark Consultancy Services needs a Software Engineer with a BE in computer science and 2 years experience, to be posted at Noida, Uttar Pradesh. Please send your résumé to The Director, Mark Consultancy Services, 575, Mark Complex, Kajamalai Colony, Tiruchi 600 020. **(16)**

(OR)

b) Golden Constructions requires an electrical engineer with a BE in Electrical and Electronics Engineering from a reputed college. A minimum of five years experience in a construction company is expected from the candidate. Please apply with your résumé to The General Manager, Golden Constructions, 5-B, City Trade Centre, 807, Poonamalee High Road, Chennai-600 010. **(16)**

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