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<b>Question Paper Code : 97093</b>
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B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

First Semester

Civil Engineering

HS 6151 — TECHNICAL ENGLISH I

(Common to all Branches)

(Regulation 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. In each of the following questions, out of the four alternatives, choose the one which can be substituted for the given expression :  $(4 \times \frac{1}{2} = 2)$
- (a) A person interested in collecting and selling of old things  
 (i) antiquarian (ii) junk dealer  
 (iii) crank (iv) archeologist
- (b) One who is not easily pleased by anything  
 (i) maiden (ii) mediaeval  
 (iii) precarious (iv) fastidious
- (c) Handwriting that cannot be read  
 (i) negligible (ii) illegible  
 (iii) inelible (iv) incorrigible
- (d) Thing that cannot be seen with human eyes  
 (i) insensible (ii) intangible  
 (iii) invisible (iv) unseen
2. Fill in the blanks with the appropriate forms of the words given :  $(4 \times \frac{1}{2} = 2)$

Verb	Noun	Adjective
Believe	Belief	
Create		Creative
	Imagination	Imaginary
Protect	Protection	

3. Use the suitable compound noun from the list of words to complete the following sentences.:

(4 ×  $\frac{1}{2}$  = 2)

ball, key, ticket, paper, plastic, board, brush, basket,  
fight, tooth, pin

- (a) You should play \_\_\_\_\_ regularly to become a tall and slim person.  
 (b) I can't use my computer now because the \_\_\_\_\_ and mouse need to be replaced.  
 (c) I can attend the international conference which is to be held in Australia if the company is ready to pay for my \_\_\_\_\_.  
 (d) My dentist advised me to use a good \_\_\_\_\_ to avoid dental problems.
4. Write a single sentence definition for any TWO of the following terms :

(2 × 1 = 2)

- (a) dynamo (b) microphone  
 (c) telephone (d) telescope
5. Give antonyms of the following words by adding suitable negative prefixes :

(4 ×  $\frac{1}{2}$  = 2)

- (a) tolerant (b) mature  
 (c) responsible (d) literate
6. Fill in the blanks with suitable tense forms of the verbs given in brackets :

(4 ×  $\frac{1}{2}$  = 2)

Only few people in this world \_\_\_\_\_ (leave) their footprints on the sands of history, and these men of honor never \_\_\_\_\_ (die). One such grand personality \_\_\_\_\_ (be) the greatest innovator of all times Mr. Alexander Graham Bell, who \_\_\_\_\_ (invent) the first practical telephone. His other major inventions are hydrofoils and metal detector.

7. Choose the correct form of verb that agrees with the subject :

(4 ×  $\frac{1}{2}$  = 2)

- (a) Joseph is the only one of those students who \_\_\_\_\_ (has / have) lived up to the potential described in the yearbook.  
 (b) Politics \_\_\_\_\_ (are / is) sometimes a dirty business.  
 (c) Both of the statues on the shelf \_\_\_\_\_ (were / was) broken.  
 (d) The chairman, along with his two assistants, \_\_\_\_\_ (plant / plans) to attend the meeting.

8. Rewrite the following short conversation in the form of a reported speech:

(4 ×  $\frac{1}{2}$  = 2)

James : I want a room for two persons.  
 Receptionist : How many days will you stay here?  
 Joseph : Two days, please.  
 Receptionist : There is one Non-Ac room on the first floor. Room Number is 235.  
 Joseph : Thank you.

9. Edit the following passage by correcting the mistakes in spelling and grammar: (8 ×  $\frac{1}{4}$  = 2)

during the First World War, Sir Alexander Fleming work as an army medical doktor. He is the inventor of penicillin that prevent a lot of soldiers from being infection. The discovery of penicillin managed to significant boosted the evolusion of medicine.

10. Change the statements to questions using the question word in parenthesis. (4 ×  $\frac{1}{2}$  = 2)

- (a) My friend told me that he would come to my house at 8 o'clock. But he came only at 10 o'clock. (When)  
 (b) I would like to stay in the hotel for five days. (How long)  
 (c) I didn't attend the class on Friday since I was ill for two days. (Why)  
 (d) Yesterday I went to the post office. I had to send a letter to the Manager of company. (Where)

PART B — (5 × 16 = 80 marks)

Attempt both subdivisions (a) and (b).

11. (a) Read the passage and answer the questions given below : (8)

The Great White Shark is the largest predatory shark, and is probably the most well-known and feared shark. It is gray or bluish above and white below. It can reach lengths of 22 feet and weigh up to 5,000 pounds. Most are between 13 and 16 feet and weigh 1,500-2,400 pounds. It has massive teeth, which are positioned in rows and serrated. When it attacks, it bites its prey and shakes its head back and forth. The serrated teeth act as a saw and literally tear the victim apart. It often swallows many of its own teeth in an attack.

The Great White Shark normally feeds on fish, seals, dolphins, porpoises, otters, and turtles. It is thought to locate its prey by electro-sense and by smell. Like all sharks, Great Whites have special pores called Ampullae of Lorenzini, which enable them to detect the electromagnetic fields radiated by moving organisms. Great Whites can detect voltage as small as one half billionth of a volt.

Great Whites employ several hunting techniques depending on the prey. Most of the time, the shark will remain still underwater before ambushing its prey from underneath. With larger prey such as elephant seals, the shark will simply take a huge bite out of it and wait for it to bleed to death. When hunting dolphins, the shark will attack from above, presumably to avoid detection from the dolphin's echolocation.

These sharks are most commonly observed throughout the world's sub-arctic coastal waters, though they likely spend most of their time in the open ocean. Highest concentrations are found in the waters off the coast of South Africa, Australia, California and Mexico. They are also found in the Adriatic and Mediterranean Seas. They generally prefer water between 54 and 75 degrees Fahrenheit.

A Great White Shark has never been observed giving birth, however pregnant females have been caught. The Great White Shark is known to be ovoviviparous (young develop in eggs within the mother's body). Females give birth to eight or nine pups that are about five feet in length upon birth. Great Whites reach reproductive maturity when the

male is about 12 feet long and the female about 13 feet long. It is thought that Great White Sharks live up to 40 years in the wild, but this estimate may be too low.

Despite the fear of Great White Sharks, at least in part generated by Steven Spielberg's 1975 movie, *Jaws*, Great White Sharks do not target humans as prey. Most attacks are attributed to mistaken identity. Sharks can easily mistake humans for seals. Many human injuries caused by Great White Sharks are cases of test-biting. If a shark is unsure about a floating object, it often gives it a test bite to determine what kind of object it is. While such bites do little damage to buoys and other objects, they obviously can inflict serious damage on the human body.

- (i) Which of the following is least likely?
- (1) Finding a Great White Shark in 85 degree (Fahrenheit) water
  - (2) Find a Great White Shark hunting a porpoise
  - (3) Finding a 15 foot long Great White Shark
  - (4) Finding a Great White Shark that weighs 2,000 pounds.
- (ii) The maximum weight of MOST Great White Sharks is \_\_\_\_\_ pounds.
- (1) 2,400
  - (2) 24,000
  - (3) 5,000
  - (4) 4,200
- (iii) Which, of the following is not the normal part of the Great White Shark's diet?
- (1) Seals
  - (2) Humans
  - (3) Fish
  - (4) Dolphins
- (iv) The \_\_\_\_\_ are specialized pores that allow a shark to detect magnetic fields of moving organisms.
- (1) Electromagnets
  - (2) Echolocation
  - (3) Ampullae of Lorenzini
  - (4) Serrations
- (v) What does ovoviviparous mean?
- (1) It refers to animals whose young develop outside the mother's body.
  - (2) It refers to animals that lay eggs
  - (3) It refers to animals that do not lay eggs
  - (4) It refers to animals whose young develop in eggs within the mother's body.
- (vi) The Great White Shark locates its prey by
- (1) electro-sense and smell
  - (2) colour
  - (3) appearance
  - (4) touch
- (vii) In which of the following places would you have the best chance to see a Great White Shark?
- (1) Mediterranean Sea
  - (2) Antarctica
  - (3) Mississippi River
  - (4) Coastal South Africa

(viii) Which of the following is NOT true?

- (1) Great White Sharks swallow their own teeth during attacks.
- (2) Great White Sharks employ different hunting techniques depending on the prey they are stalking.
- (3) Great White Sharks often target humans as prey.
- (4) Great White Sharks can detect prey by smell or by magnetic field.

(b) Read the excerpts from an interview with Bill Gates and answer the questions given below :

Reporter : How does technology impact lives of people around the world, and in what ways will this impact change as technology progresses?

Bill Gates : Technology can improve people's lives in two ways. First, it helps us do things more efficiently. This is something technology has always done, starting with the first tools, like hunting implements. By helping us to be more productive, technology lets us to spend less time focusing on survival, and more on solving other challenges. Technology also improves our ability to find and share information. This has been going on for a long time. It also goes back to the invention of tools for writing, the printing press, the telegraph, and more. But this process has gained incredible speed thanks to computers and the Internet. This is helping us tackle big problems in science, medicine, engineering and other areas more quickly than ever before. I believe technology will continue to become more affordable and more people will have the chance to use it. This will help more people get medical care and good education. It will give them information about things like how to grow crops more successfully. All of these things will be important in lifting people out of poverty. I think we're also close to some important advances in computers that will give scientists new ways to understand the world and work together to make progress in areas like genetic research and energy that will have a big impact on all our lives.

Reporter : How can kids today use technology to follow their dreams and help make their world a better place?

Bill Gates : In some ways, being a teenager is probably a lot more complicated than it was when I was a kid. But in many ways I also think it must be incredibly exciting to be a young person today. You have access to so much more information than I did when I was a kid. You have truly amazing opportunities to bring new ideas and new technologies together to really make a difference. If your goal is to make the world a better place, one thing you can do is pick a specific challenge that you really care about. Then, learn as much as you can about it and try to volunteer your time to help an organization that is working in this area. While you're doing that, look for creative new ways to use technology to tackle parts of the problem that you come in contact with.

Reporter : Did you have mentor(s) as a child? If so, in what ways did they impact you positively as a person and how did they help you launch your dreams?

Bill Gates : So many people encouraged my curiosity and supported my interests when I was young. So it's hard to point to just one or two and say they were my main mentors. But I think my mother had a special influence because she believed so strongly in helping others and she passed this belief on to me. My Dad always encouraged me to get involved in things I was passionate about. Another person who played a really important role was my friend Paul Allen. He was three years older than me when we met in junior high school, which is quite a bit when you're that age. We spent a lot of time together back then trying to figure out what computers could do. He was the one who first recognized that computer chips would quickly make computers cheap enough for almost everyone to use. That's what led to the beginning of the PC revolution. He was my partner when we started Microsoft.

Reporter : What advice would you give to a kid who wants to explore technology, but doesn't quite know where to start?

Bill Gates : Read a lot. Magazines like Scientific American or the science section of newspapers, like the New York Times, will give you have a good sense of how science and technology are changing. There are some great websites, too, like Popular Science ([www.popsci.com](http://www.popsci.com)) or the Tech Museum ([www.thetech.org](http://www.thetech.org)). Take a computer programming class so you can learn how computers work. Sign up for the Microsoft Imagine Cup or one of the robotics contests for high school kids that take place around the country. These are a lot of fun and they are a great way to have a fantastic hands-on experience with technology.

Reporter : How is the Bill and Melinda Gates Foundation helping kids of diverse backgrounds from around the world?

Bill Gates : The Bill and Melinda Gates Foundation is working to reduce poverty and improve health for kids around the world. We're trying to find new ways to treat diseases like malaria and tuberculosis that affect millions of poor children. We're working to provide better care for mothers and children, and to make sure more kids get vaccines for preventable diseases. We have programs to help poor farmers improve their harvests so their families have enough food to eat. In the United States, we're working hard to support efforts to make sure high school students graduate and have the skills to be successful in college. We also offer scholarships for many kids who can't afford to attend college or graduate school.

Reporter : If you could see one dream for the world's kids and teens fulfilled in your lifetime, what would it be?

Bill Gates : My dream is that every child has enough food to eat, good medical care, and the chance to go to school and even attend college. I hope someday what people can do with their lives depends on their talents and how hard they are willing to work, rather than on where they happen to be born.

Write short answers for the following questions : (4 × 2 = 8)

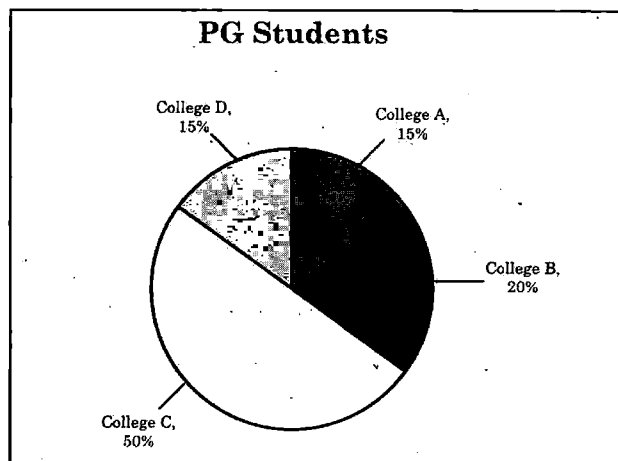
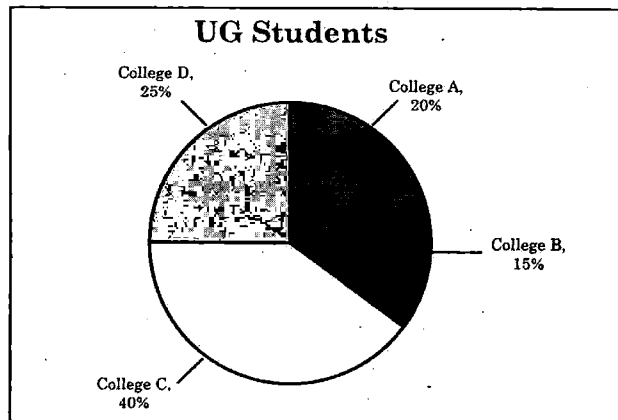
- (i) What is the solution given by Bill Gates to solve the problem of poverty?
- (ii) What should you do to make the world a better place?
- (iii) Mention the three persons who had a great impact on his life?
- (iv) Comment on the dream of Bill Gates.

12. (a) Imagine that you are the controller of examinations. Write a set of eight instructions for the students in the examination hall. (16)

Or

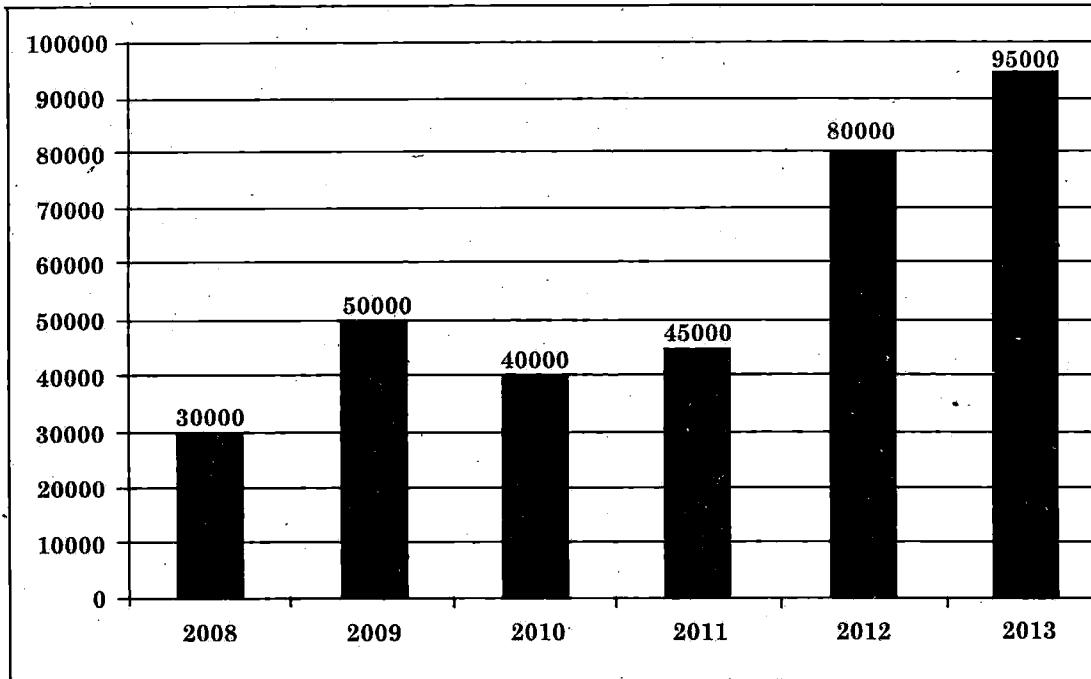
(b) Power cut is a major problem in southern parts of India and it badly affects small scale industries. Write a set of eight recommendations to ensure continuous power supply to the small scale industries. (16)

13. (a) The following pie-charts show the distribution of students of graduate and postgraduate levels in four colleges. The total number of undergraduate students in these colleges is 4500 whereas the total number of postgraduate students is 1500. Write a paragraph based on the details found in the charts : (16)



Or

- (b) The bar chart given below shows entertainment expenses in rupees of the company from 2008 to 2013. Write a paragraph interpreting the details found in the chart :



14. (a) Imagine that your friend does not like reading newspapers, magazines and short stories. He is not aware of the importance of reading habit. Write a letter to him about the usefulness of reading habit and its positive effects on language proficiency of the individual. (16)

Or

- (b) Your brother is going to appear for the +2 examination that is to be conducted in 2015. Write a letter to him about the study strategies to score high marks in the examination. (16)

15. (a) Write an essay not exceeding 300 words describing the uses of internet in education. (16)

Or

- (b) Write an essay not exceeding 300 words on noise pollution in cities and its bad effects on society. (16)