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## Question Paper Code: 50704



# B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017

Second Semester

Civil Engineering

(Common to All Branches except Marine Engineering) HS 6251 – TECHNICAL ENGLISH – (Regulations 2013)

Maximum: 10	《《《··································	1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年,1900年	A STATE OF	tume: three rours	Maximum: 100 Marks
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Answer ALL questions  PART - A  (10×2=20 Ma)  Fill in the blanks in the following sentences with the correct words choosing from the homophones given in brackets.  a) As soon as I (herd/heard) the receptionist calling out my name, I (knew/new) that something was wrong.  b) The wind (blue/blew) hard, making it hard for the (plane/plain) to take off.  Rewrite the following in the passive form:  a) An auto driver found a bag in his auto. When he opened it, it exploded.  b) The Central Government conferred on him the award of Inventor of the Year for his new invention.
Answer ALL questions  PART – A  1. Fill in the blanks in the following sentences with the other the homophones given in brackets.  a) As soon as I (herd/heard) the reception (knew/new) that something was wrong.  b) The wind (blue/blew) hard, making it he plain) to take off.  2. Rewrite the following in the passive form:
orrect mist ca
(10×2=20 Marks) t words choosing from (4×½=2 Marks) alling out my name, I

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Combine the following sentences using appropriate cause effect expressions.

There was a storm brewing and wind speeds were very high. The flights that

were scheduled to take off that night were all cancelled

by attacking innocent people and setting fire to buses.

The court convicted the godman for his crimes. His followers protested violently

 $(2\times1=2 \text{ Marks})$ 

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Fill in the blanks with right options to complete the collocations.  a) The prisoner tried to suicide in the jail. i) do	d) Negotiations between the two countries were back to square one after the Pakistani border force fired at the Indian troops.  i) went back to the game of chess ii) went back to the starting point with no progress iii) went back one square iv) went on a retreat	σ. <del>Γ</del>	athy us a fork a fork a d over concen he copp azed. plains v plains v	first, however, which, then, these Uri Geller is said to have superhuman powers. Scientists,, are still not able to decide whether he is a genius or a charlatan—or both. This article describes some of the experiments he agreed to do at the Stanford Research Institute.	and as verb in another to show the difference in usage.  (2×1=2 Marks)  a) block  b) produce  c) object  Fill in the blanks using appropriate connectives choosing from the list given below:

10.

Combine the following clauses to form single sentences.  $(2\times1=2 \text{ Marks})$ 

Raja was the owner of the apartment. He had two sets of keys to the apartment. Some candidates finished all the questions in the online exam well ahead of

time. They were given extra questions to answer

#### PART -

 $(5\times16=80 \text{ Marks})$ 

Answer both (i) and (ii)

Read the following passage and answer the questions given below

There are two types of diabetes, insulin-dependent and non-insulin-dependent often develop gradually and are hard to identify at first; therefore, nearly half of all people with diabetes do not know they have it. For instance, someone who has developed Type II diabetes may feel tired or ill without knowing why. after the age of 55, it used to be called adult-onset diabetes. Its symptoms form of diabetes usually begins in adults over the age of 40 and is most common can cause the same long-term health problems. short-term effects and treatments of the two types of diabetes differ, both types with diabetes have non-insulin-dependent, or Type II, diabetes. Because this damage to the heart, blood vessels, eyes, kidneys and nerves. While the causes This can be particularly dangerous because untreated diabetes can cause Between 90 – 95% of the estimated 13 – 14 million people in the United States

2) Most importantly, both types affect the body's ability to use digested food for energy. Diabetes does not interfere with digestion, but it does prevent the to metabolize or burn the glucose for fuel, which causes blood glucose levels to return to normal. The glucose that the body does not use right away is stored in the liver, muscle or fat. hormone insulin is released into the bloodstream and signals the body tissues food down into glucose. The blood carries the glucose or sugar throughout the body, causing blood glucose levels to rise. In response to this rise, the as sugar), for energy. After a meal, the normal digestive system breaks some body from using an important product of digestion, glucose (commonly known

In both types of diabetes, however, this normal process malfunctions. A gland called the pancreas, found just behind the stomach, makes insulin. In tissues do not respond well to the insulin signal and therefore, do not metabolize the glucose properly, a condition known as insulin resistance. diabetes usually produce some insulin in their pancreas, but their bodies insulin at all. This condition usually begins in childhood and is known as Type I (formerly called juvenile-onset) diabetes. These patients must have daily insulin injections to survive. People with non-insulin-dependent people with insulin-dependent diabetes, the pancreas does not produce do not

insulin receptors on cells. Like an appliance that needs to be plugged into an electrical outlet, insulin, has to bind to a receptor in order to function. and scientists are searching for the causes of insulin resistance. They have identified two possibilities. The first is that there could be a defect in the Insulin resistance is an important factor in non-insulin-dependent diabetes signal to metabolize the glucose. Scientists continue to study these cells to is that, although insulin may bind to the receptors, the cells do not read the prevent insulin from binding. The second possible cause of insulin resistance enough receptors to which insulin may bind, or a defect in the receptors may Several things can go wrong with receptors. For example, there may not be see why this might happen.

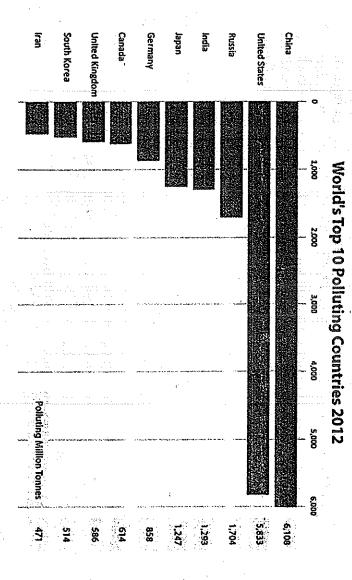
- 5) There's no cure for diabetes yet. However, there are ways to alleviate its recommended that the best treatment for non-insulin-dependent diabetes including those in the American Diabetes Association, recommend that attention to a proper balance of the different food groups. Many experts, is a diet that helps one maintain a normal weight and pays particular breads, cereals, fruits and vegetables, break down into glucose during digestion causing blood glucose to rise. Additionally, studies have shown that cooked foods raise blood glucose higher than raw, unpeeled foods. A and no more than 30% from fat. Foods that are rich in carbohydrates, like 50-60% of daily calories come from carbohydrates, 12-20% from protein diabetes. information and for help in planning a diet to offset the effects of this form of doctor or nutritionist should always be consulted for more of this kind of In 1986, a National Institute of Health panel of experts
- According to the passage, what may be the most dangerous aspect of Type II diabetes?
- Insulin shots are needed daily for treatment of Type II diabetes
- Type II diabetes may go undetected and therefore, untreated In Type II diabetes, the pancreas does not produce insulin
- Type II diabetes interferes with digestion
- 7 Which of the following are the same for Type I and Type II diabetes? Treatments 9 long-term health risks
- Short-term effects
- d) Causes
- فن insulin-dependent diabetics? A diet dominated by which of the following is recommended for non
- Fat
- Balanced nutrient levels d) Raw foods Protein
- Which of the following is the main function of insulin?
- It signals tissues to metabolize sugar
- ত It breaks down food into glucose
- It carries glucose throughout the body
- It binds to receptors
- Which of the following is mentioned in the passage as a possible problem with insulin receptors in insulin-resistant individuals
- Overating causes the receptors to function improperly
- There may be an overabundance of receptors present
- A defect causes the receptors to bind with glucose
- A defect hinders the receptors from binding with insulin
- Based on the information in the passage, which of the following best describes people with Type I diabetes?
- They do not need to be treated with injections of insulin
- They comprise the majority of people with diabetes
- Their pancreases do not produce insulin
- They are usually diagnosed as adults
- 3 check with respect to his diet and medication to make sure that his Your uncle who has diabetes comes to stay with you for a week and you have to look after him. Prepare a checklist of 4 items that you should condition doesn't become worse

9



<u>#</u>: Interpret the following chart in about 100 words. Also list your recommendations

to bring about an improvement in the situation.



### 12. a Read the following passage and answer the questions given below:

of wood, the draisienne wasn't very durable nor did it have pedals. Riders moved means of transportation. The first bicycle, called a draisienne, was invented in Germany in 1818 by Baron Karl de Drais de Sauerbrun. Because it was made it by pushing their feet against the ground. world. Today, bicycles are elegantly simple machines that are common around the Many people ride bicycles for recreation, whereas others use them as a

ın large numbers. though, because its back wheel was substantially larger than its front wheel could be ridden at a quick pace. It didn't look much like the modern bicycle bicycle. Macmillan's machine had tires with iron rims to keep them from getting worn down. He also used foot-operated cranks, similar to pedals, so his bicycle In 1839, Kirkpatrick Macmillan, a Scottish blacksmith, invented a much better Although Macmillan's bicycles could be ridden easily, they were never produced

and iron frame. Despite the unflattering nickname, most people called it a "bone shaker" because of the jarring effect of the wood with an improved crank mechanism. They called their bicycle a vélocipède, but annually, mostly for fun-seeking young people. After a few years, the Michaux family was making hundreds of the machines , Frenchman Pierre Michaux and his brother Ernest invented a bicycle the vélocipède was a hit.

that revolutionized bicycle design. Ten years later, James Starley, an English inventor, made several innovations and lightened the wheels by using wire spokes. Although this bicycle was much than the back wheel, put a gear on the pedals to make the bicycle more efficient mostly for entertainment. lighter and less tiring to ride, it was still clumsy, extremely top-heavy and ridden He made the front wheel many times larger

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made it much less prone to toppling over. Lawson also attached a chain to the pedals to drive the rear wheel. By 1893, the safety bicycle had been further familiar to today's cyclists. The safety bicycle had equal-sized wheels, which It wasn't until 1874 that the first truly modern bicycle appeared on the scene the world and useful for transportation. Today, they are built, used and enjoyed all over With the improvements provided by Lawson, bicycles became extremely popular improved with air-filled rubber tires, a diamond-shaped frame and easy braking Invented by another Englishman, H. J. Lawson, the safety bicycle would look

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l) Write a short summary	
1) Write a short summary of the above given passage in not more than 100 words. (6	
is. (6	

Complete the following sentences in NO MORE THAN THREE TO FOUR WORDS (4×1=4 Marks)

The draisienne was as it was made of wood

The innovation introduced by Macmillan to make longlasting than the draisienne was his bicycle more

The other name for velocipede was boneshaker because of its

The innovation introduced by James Starley that is still used in today's

3) Answer the following questions in two sentences:

(3×2=6 Marks)

a) Describe the velocipede.

b) What are the uses of the bicycle?

What are the innovations introduced by Lawson in his bicycle design?

(OR)

Read the following passage and answer the questions given below :

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operations that could be carried out by an automatic machine. Sadly, Babbage never completed the machine. Seventy years later an American inventor, that all Mathematical calculations can be broken up into simple repetitive made by an English, Mathematics Professor, Charles Babbage who realized The first step towards the creation of computers as we know them today was determined that all Mathematical calculations can be stated as either true or "computer" was the first machine to use electricity. Mathematician George Boole false and defined the binary system – to be used by all future computers Herman Hollerith, created a computing machine out of necessity. Hollerith's

important reason they were replaced by smaller transistors in the 1950s fully electronic switches: vacuum tubes. These were about a thousand times faster than mechanical switches, but they were gigantic. The first electronic computers instead of using electromechanical relays used This is the most

As transistors replaced vacuum tubes in the 1950s, computers began to grow a memory and could store data on disk. Transistors created heat, which tended programming codes consisting of a few letters and had an operating system and smaller and faster. Early supercomputers replaced binary codes invention of the integrated circuit in 1958. Another development of the 1960s to damage the heat-sensitive components. This problem was eliminated by the which could run simultaneously. was an operating system with a central program supervising other programs



computers had user-friendly programs and offered the first word processors, spreadsheets and even the first computer games! computer manufacturers were ready to bring computers to consumers. These Since computers were no longer so large, they also became cheaper. In the 1970s,

in 1992. As their potential grew, new ways of using computers were being developed. Computers could be linked together to form networks sharing software, memory space and information. The World Wide Web, which was started in 1989, links up computers worldwide to provide people with opportunities to share information and to enable communication via e-mail In 1981, the first IBM PCs were introduced into homes, schools and offices. The Apple Macintosh was introduced three years later. The number of personal computers soared from 2 million in 1981 to almost 6 million in 1982, to 65 million

are likely to continue to be tools that we rely on. Today computers are an inseparable part of many people's lives and jobs and

Complete the followin Write a short summary of the above given passage in not more than 100 words. (6)

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FOUR WORDS.		(4×1=4 Marb
a) Vacuum tuhes	a) Vacuum tuhes had the advantage of	HIRIAT H-T->+)

೦೮ The operating system could Transistors had the disadvantage of

بع The world wide web enables people to

Answer the following questions in two sentences:

 $\mathfrak{S}$ 

نع How did the invention of the integrated chip help the growth of the  $(3\times2=6 \text{ Marks})$ 

9 What were the qualities that pioneers of computers looked to integrate into the computer?

When did the computer become suitable for mass production and use?

13. Respond the any one of the following advertisements with a job application and resume

engineering and engaging personality. Interested candidates may send their applications with resume to the HR Manager, Technomentis Edu. Services, 101, MSX Tower-2, Alpha Commercial Belt, Alpha I, Greater Noida, Uttar Pradesh and presentation skills, technically sound strong basics in science and into the curriculum. Candidate should possess excellent oral communication Technomentis Edu Services is looking for fresh engineering graduates from all disciplines to work as Research Associate Job responsibilities: Assisting the R and D in developing courses, creating interactive learning materials Candidate should adapt to new and emerging technologies and incorporate them

OR)

ಶ coordination with clients, gauging requirements of clients and delivering technical solutions as per client specifications. Interested candidates may email Smart Solutions has vacancies for engineering graduates from electrical, electronic, mechanical, civil and allied disciplines to work on various projects. their resume to smartsol21@gmail.com Candidates should have good communication skills and should work in close

### 14. Write a report on any one of the following:

Your college wishes to improve its performance in sports. For this purpose you as student representative have been asked to conduct a survey among students on sports infrastructure, preferred sports, time allocation etc. Prepare a report in sports and present a report to the Dean. Your survey should include questions about their opinions on how to improve students' participation and performance with cover letter in about 300 words for this purpose

(OR)

೮ Your department has set up a new study centre exclusively for students with a capacity of 50 people equipped with wifi, computers, photocopiers, scanners and including details about how the students find the facility and whether any cover letter in about 300 words to be submitted to the Head of the Department prepare a report on the students' opinion of the facility. Prepare a report with other facilities. You are the student representative and you have been asked to additions or changes need to be made

### 15. Write a dialogue on any one of the following:

You have been called for an internship interview in a multinational core could be offered the six month internship with a stipend of Rs. 15,000/- if you do you and the HR Manager. You have already cleared the written test and you company. Write the dialogue that would have happened in the interview between should have minimum of eight interactions (16 sentences) between you and HR well at the interview. The first two exchanges are given for your reference.

HR Manager: Why do you wish to take up an internship in this company?

reinforce the fundamental concepts You: I would like to get some hands on training in the industry which would

HR Manager:..

(OR)

ಶ You are the Production Manager in your factory. You wish to introduce automation into a manual process followed in the factory. However your General given for your reference. convince your GM to give their approval for automation. The first interaction is Manager has doubts about the proposal. Write a dialogue in which you try to (16 sentences) between you and your GM You should have minimum of eight interactions

in for automation GM: When our traditional process has been effective so long, why should we go

in kilograms. But today the volume has increased to tons You : Sir, the manual process was effective when the volume of production was

GM: