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**Question Paper Code : 42678****B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018****First Semester****Civil Engineering****HS 2111 – TECHNICAL ENGLISH 'I'****(Common to All Branches)****(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 meanings in column B : (4×½=2)****A****B**

a) Stringent

i) becoming bad in condition

b) Deterioration

ii) danger

c) Hazard

iii) likely to be achieved

d) Feasible

iv) very strict

**2. Expand the following compound nouns : (4×½=2)**

a) Solar cell

b) Textile shop

c) Fishing harbour

d) Electronic gadget



3. Change the following into impersonal passive :

(2×1=2)

- The men are repairing the machine.
- We produce lots of food grain in India.

4. Frame sentences using comparative adjectives :

(2×1=2)

- The car – expensive – bicycle
- Petrol – costly – diesel

5. Write a single line definition for the following :

(2×1=2)

- A radio
- A computer

6. Change into the other forms of the words :

(4×½=2)

Noun	Verb	Adjective
movement	_____	_____
_____	produce	_____

7. Frame cause and effect sentences using the expressions given in brackets : (2×1=2)

- The boy rode the bike very fast. Lost control of it and fell. (Due to)
- The bridge was very old. It was swept away by the floods. (Since)

8. Fill in the blanks with the correct tense of the verbs given in brackets : (4×½=2)

- The boy \_\_\_\_\_ (read) for his exams when his friend \_\_\_\_\_ (come) in.
- The storm \_\_\_\_\_ (attack) the harbor last night and \_\_\_\_\_ (cause) destruction.

9. Complete the sentences by using suitable 'If' clauses :

(2×1=2)

- If the engine gets heated up, it \_\_\_\_\_ (make) loud noise.
- If the driver had added engine oil, it \_\_\_\_\_ (produce) noise.



10. Choose the correct word in the following sentences for subject verb agreement :

(4×½=2)

- a) India is one of the Asian countries and it \_\_\_\_\_ (has/have) many natural resources.
- b) One of the students \_\_\_\_\_ (are/is) very active in class.
- c) The boy along with his mother \_\_\_\_\_ (attend/attends) the programme.
- d) Many cities in the US \_\_\_\_\_ (are/is) experiencing cold weather.

PART – B

(5×16=80 Marks)

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

A material is what something is made of. There are 5 basic materials. Most things are made with these materials. Some things are made of metal. Some things are made of glass. Some things are made of wood. Some things are made of cloth. And some things are made of plastic. There are some other materials. But they are not used as much as these 5 materials.

Let's talk about metal first. Metal is very heavy. And it is very hard and strong. It usually feels cool if you touch it. We use metal to make lots of things. We use it for forks and knives. We use it for keys. We use it for cars. We use it for these things because it is very strong.

Next, let's talk about glass. Glass is very smooth. It feels cool to touch. It is not as heavy as metal. It is hard. But it is not strong. It breaks very easily ! Then why do we use it ? We use it because it is clear! You can see through glass! That's why we use it for windows. That's also why we use it for glasses.

Now, let's talk about wood. Wood is lighter than metal and glass. It is not as strong as metal. But it is much stronger than glass. We use wood to make lots of things. Things made from wood are usually light and hard and strong. Chairs and tables are made from wood. Pencils are made from wood.

Now let's talk about cloth. Cloth is very light. It is much lighter than wood. And it is very soft. We use cloth to make lots of things. For example, it is used to make clothing. And it is used to make blankets.



Last, let's talk about plastic. Plastic is also very light. But it is different from cloth. Sometimes it is soft. And sometimes it is hard. Plastic can be used to make thin plastic bags. These are light, soft, and strong. But plastic can also be used to make bicycle helmets. These are light, hard, and strong. A helmet and a bag seem different. But they are both made from plastic.

A) Choose the correct answer for the following :

(8×1=8)

1) Which sentence from the passage best describes the main idea?

- A) "We use cloth to make lots of things."
- B) "Metal is very heavy."
- C) "There are 5 basic materials."
- D) "A helmet and a bag seem different."

2) According to the passage, which of these things is a material?

- A) chairs
- B) clothing
- C) windows
- D) wood

3) According to the passage, how does glass feel ?

- A) smooth and cool
- B) warm and soft
- C) light and hard
- D) sharp and heavy

4) In paragraph 4, the passage says, "Wood is lighter than metal and glass." What is the main purpose of this sentence ?

- A) to explain something
- B) to recommend something
- C) to compare something
- D) to demonstrate something

5) Which material would you use if you wanted to make something that was strong and very light ?

- A) plastic
- B) wood
- C) metal
- D) glass



6) In this passage, the author talks about

- A) hard things first, then soft things
- B) heavy things first, then light things
- C) strong things first, then weak things
- D) cool things first, then warm things

7) Which of the material is very heavy ?

- A) Wood
- B) Plastic
- C) Rubber
- D) Metal

8) Which of the following statements is true ?

- A) Plastic can be used to make both bicycle helmets and bag
- B) Plastic is very soft always
- C) Plastic is used to make only thin bags
- D) Plastic is very expensive

B) Fill in the blanks with correct words taken from the passage :

(8×1=8)

- 1) There are \_\_\_\_\_ basic materials.
- 2) Metal is used in the manufacture of cars because it is \_\_\_\_\_.
- 3) One of the properties of glass is, it \_\_\_\_\_.
- 4) Windows are made of glass because we can \_\_\_\_\_.
- 5) Wood is \_\_\_\_\_ than metal and glass.
- 6) Blankets are made from \_\_\_\_\_.
- 7) Plastic is not only hard but also \_\_\_\_\_ and \_\_\_\_\_.
- 8) Metal is \_\_\_\_\_ when we touch it.

12. a) Write a set of eight instructions to be given to the students who are going to take part in a national hockey match.

(OR)

b) Write eight recommendations to be given to engineering students to perform well in campus interview.



13. Write an essay on any one of the following topics in 250 words:

a) Describe an electronic device used by us every day.

(OR)

b) Compare and contrast solar energy and wind energy.

14. a) Recently the bus fares were increased. Write a letter to the editor of a newspaper on the bus fare hike in your state.

(OR)

b) Write a letter to the manager of a company requesting permission to visit the company. Write the date, time, number of students etc.

15. Attempt any one :

a) Rearrange the following sentences into logical and sequential order :

### Recycling of Paper

- i) Paper for recycling has to be collected separately from other materials.
- ii) It is then graded and delivered to a paper mill.
- iii) The fibres are slushed into pulp.
- iv) The collected paper is first dissolved in water and separated from the non-fibre impurities.
- v) Having reached the paper mill, the fibres are progressively cleaned.
- vi) As a first step, the recovered paper is sorted
- vii) The resulting pulp is filtered and screened a number of times to make it suitable for paper making.
- viii) A large non-fibrous contaminants are removed (for example staples, plastic, glass etc.).

(OR)



- b) Using the information provided in the text, prepare a flow chart for making Rayon.

### Rayon Making

Rayon is made from cellulose obtained from wood pulp. Cellulose is a naturally occurring polymer. Threads made from rayon have silk like appearance and therefore it is called artificial silk.

#### Preparation of rayon

The starting material for rayon is the cellulose in the wood pulp. The following raw materials are needed for the manufacture of rayon Cellulose  $(C_6H_{10}O_5)_n$  in the form of wood pulp.

The first step in the manufacture of rayon is to make viscose. Viscose is a syrup like liquid which forms when cellulose is treated with NaOH and  $CS_2$ . Viscose is a thick viscous liquid. The viscose is made to pass through a cylindrical drum, which has fine holes on it. The viscose is forced through these holes as a fine jet. The cylinder is called a spinneret. The threads formed are collected in a dilute Sulphuric acid medium. Since the viscose solution has NaOH, it is slightly alkaline in nature. By treating the viscose fibers in dilute sulphuric acid, the fibers are neutralized. The fine threads are called viscose rayon or just rayon.

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