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Question Paper Code : 54011

B.E./B.Tech. DEGREE EXAMINATION, JANUARY 2018

First Semester

Marine Engineering

HS8101 – TECHNICAL ENGLISH – I

(Regulations 2017)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. Fill in the blanks with appropriate tense form of the words given in the brackets : (4×½=2)
 - a) We _____ (look for) her ring for two hours when we found it in the bathroom.
 - b) Do you know what time the 10:45 plane _____ (arrive) in Chicago ?
 - c) Tomorrow at around 7.30 pm, I _____ (drive) through America.
 - d) Hardly had the minister finished his speech when gunshots _____ (storm) the stadium.
2. Fill in the blanks using the correct prepositions : (4×½=2)
 - a) She is very preoccupied _____ planning her wedding.
 - b) Jade is bad _____ spelling and math.
 - c) I am shocked _____ his sudden disappearance.
 - d) I am so grateful _____ you for your help.
3. Substitute the following phrases with **one** word : (2×1=2)
 - a) A game in which neither party wins.
 - b) Water that is fit for drinking.
4. Fill in the blanks with appropriate sequence words from the list given below : (4×½=2)

(In addition, finally, though, For another reason, In the first place, Then, In contrast)
 Buying organic fruit and vegetables is a better choice _____, they are less contaminated by chemical pesticides. _____, they are not genetically modified _____, they are allowed to mature or ripen fully. _____, they have a shorter 'shelf life' so they are sold when fresh or best.



5. Choose the correct order of Adjectives : (4×½=2)
- a) He recently married a _____ woman.
- 1) young beautiful Greek
 - 2) beautiful young Greek
 - 3) beautiful Greek young
- b) He was wearing a _____ shirt.
- 1) dirty old flannel
 - 2) flannel old dirty
 - 3) old dirty flannel
- c) She gave him a _____ vase.
- 1) small Egyptian black
 - 2) black Egyptian small
 - 3) small black Egyptian
- d) I used to drive _____ car.
- 1) a blue old German
 - 2) an old German blue
 - 3) an old blue German
6. Change the following sentences into indirect speech : (2×1=2)
- a) Mary asked me, "Who helped you with your work ?"
- b) Tom said, "Do you like tea ?"
7. Define the following in a single sentence : (2×1=2)
- a) Mariner's compass
- b) Robot
8. Form 'WH' questions with reference to the underlined words : (4×½=2)
- a) Tommy rides his bike very fast.
- b) They study English every Tuesday morning.
- c) Mary invites Raju to come to her birthday party.
- d) I prefer the blue jumper not the pink one.
9. Expand the compound words : (2×1=2)
- a) radio signal.
- b) sea sickness.



10. Join the following sentences using cause and effect words to show casual relations :

(2×1=2)

- a) The women got to the airport late. They missed their flight.
- b) The bees stung me. I knocked their hive down.

PART – B

(5×16=80 Marks)

11. Read the following passage and answer the questions that follow :

Do you know the difference between a submarine and a submersible ? A submarine is a watercraft that is capable of independent operation under the sea. Submarines do not require support ships because submarines can renew their air and power supplies independently. Submersibles also submerge and operate underwater, but they need the support of a larger vessel. Submersibles cannot renew their air and power supplies without support. For this reason submersibles are usually smaller and cannot spend as much time underwater as submarines.

The first documented submersible was constructed in 1620 by Cornelius Drebbel. It was powered by rowing oars underwater. Though this craft was originally designed for underwater exploration, it did not take long for inventors and makers of war to recognize the military potential of the submersible. In 1648 Bishop John Wilkins wrote, "It may be of great advantages against a Navy of enemies, who by this may be undermined in the water and blown up." Over one-hundred years later, the first military submarine was ready to be deployed.

The *Turtle* was the world's first submarine used in combat. Designed by David Bushnell in 1775, it was deployed by the Continental Army during the American Revolutionary War. Though the *Turtle* did utilize a support ship in combat, it was fully capable of renewing its air and power supplies independently; therefore, the *Turtle* is considered to have been a submarine and not a submersible. The *Turtle* was powered by hand-cranked propellers and was named as such because it resembled a turtle. It held a single person, moved about three miles per hour in calm water and contained enough air to stay submerged for about thirty minutes. General Washington authorized an attack using the *Turtle* on a British flagship blockading New York Harbor. Sgt. Ezra Lee operated the *Turtle* and attempted to affix underwater explosives to the British ship, but he failed. The *Turtle* was later destroyed by the British. Despite this failure, the *Turtle* is still remembered as the first submarine used offensively during war.



Another notable submarine originally designed for war was Julius H. Kroehl's *Sub Marine Explorer*. Built between 1863 and 1866, this submarine was created for the North during the American Civil War but the war ended before it went into use. After the war it was used commercially to harvest pearls in Panamanian waters during the late 1860s. Unfortunately, the dangers of decompression sickness (a condition that occurs when divers rise to the water's surface too quickly) were not understood. While experimenting with the *Sub Marine Explorer* in 1867, Kroehl himself perished from decompression sickness. In 1869 a new engineer put the *Sub Marine Explorer* back to the task of harvesting pearls. Tragically, use of the *Sub Marine Explorer* was discontinued after the entire crew died from decompression sickness.

Submarine use increased greatly during World War I. Due to innovations in engineering, such as a dual power system using both diesel and electric sources, submarines had finally developed into effective war machines. One watercraft called the U-Boat was put to great effect by the Germans. Some argue that the U-Boat was more of a submersible, since U-Boats operated primarily on the surface using diesel engines and submerged only occasionally to attack using battery power, but the effectiveness of the U-Boat in combat is certain. During World War I more than 5,000 Allied ships were sunk by U-Boats, including the *Lusitania*, which is often cited as a reason why America entered the war.

U-Boats were again utilized extensively by the Germans during World War II. Though the U-Boats were devastating to British fleets, advances in technology such as radar and sonar reduced their overall effectiveness. Additionally, the U.S. had also developed and deployed a fleet of submarines to great effect. Though the Japanese attack on Pearl Harbor destroyed or severely damaged many of the U.S. Navy's front-line Pacific Fleet ships, U.S. submarines survived the attack and went on to cause great damage. Submarines, though only about 2 percent of the U.S. Navy, destroyed over 30 percent of the Japanese Navy. This made U.S. submarines the most effective anti-ship and anti-submarine weapon in the entire American arsenal.

Modern submarines are now powered by a nuclear reactor. The nuclear reactor generates a tremendous amount of power and frees the submarine from the need to occasionally surface. The large amount of power generated by these reactors allows submarines to operate at high speeds for long durations. Current nuclear submarines never need to be refueled throughout their 25-year life-spans. The only factor limiting the amount of time that an advanced submarine can remain submerged is the amount of food and water that the submarine can carry. Even the Bishop John Wilkins, when he imagined the military capabilities of future submarines from 1648, could not have envisioned such an amazingly powerful watercraft.



I. Choose the correct Option :

(5×1=5)

- 1) For what purpose were submersibles originally designed ?
 - a) Transporting passengers underwater without the threat of storms.
 - b) Exploring under the sea.
 - c) Smuggling weapons and outlawed materials.
 - d) Attacking ships on the surface of the water.
- 2) Which of the following best describes why the author *most likely* wrote this text ?
 - a) To entertain his audience with stories about submarines.
 - b) To educate his readers about how submarines work.
 - c) To inform his readers about the evolution of submarines.
 - d) To convince his audience to purchase a submarine.
- 3) Which is the *most likely* reason why the author wrote the first paragraph ?
 - a) To explain a concept that would be referenced throughout the text.
 - b) To introduce the main idea of the text.
 - c) To get the reader's attention with startling information.
 - d) To amuse the reader with an interesting historical anecdote.
- 4) Which of the following *best* describes how the text is structured in the first paragraph ?
 - a) Compare and Contrast
 - b) Chronological
 - c) Problem and Solution
 - d) Sequence/Process
 - e) Order of Importance
- 5) Which of the following would be the *best* title for this reading passage ?
 - a) How Submarines work
 - b) A Short History of Submarines
 - c) *Turtle*: The First Combat Submarine
 - d) The Differences between Submarines and Submersibles

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II. State whether the following statements are **True** or **False** : (4×1=4)

- 1) The Turtle was the first submarine used during war to destroy another ship.
- 2) David Bushnell invented the *Turtle*; Julius H. Kroehl invented the Sub Marine Explorer.
- 3) Submersibles are different from submarines because they cannot independently renew their air and power supplies.
- 4) U-Boats are a kind of submarines.

III. Give the contextual meaning for the following words : (3×1=3)

- 1) Allied
- 2) Commercial
- 3) Harvesting

IV. Answer the following questions briefly : (4×1=4)

- 1) Why was the Submarine Explorer created ?
- 2) How long a modern submarine can remain submerged ?
- 3) How were U-Boats powered ?
- 4) How did the U.S. submarines survive the attack on Pearl Harbor ?

12. a) Write a set of eight important instructions to be followed in the chemistry laboratory to avoid unforeseen accidents.

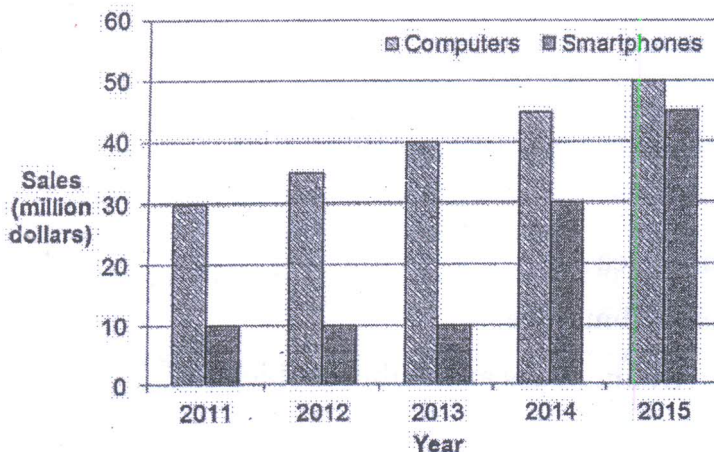
(OR)

b) Write a set of eight recommendations to be meticulously followed by the pedestrians.

13. a) Write the steps involved in the process of sending an email.

(OR)

b) The bar chart shows the amount of money spent on two types of electronic items in country X. Summarize the information in about 200 words making relevant comparisons.





14. a) Write an essay on the topic "Television is a bad influence on children".

(OR)

b) Write an essay in 250 words on the causes and effects of the oceans getting heated up.

15. a) Imagine that your younger brother or sister has received an ipod as a gift from a relative. Write an email instructing how to access music in the ipod.

(OR)

b) Write a letter to your friend describing one of the beautiful places you had visited.

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