

Reg. No.

--	--	--	--	--	--	--	--	--	--

B.E./B.TECH. DEGREE EXAMINATIONS, MAY 2017

SECOND SEMESTER

HS16252 – TECHNICAL ENGLISH FOR MARINE ENGINEERING

(Marine Engineering)

(Regulation 2016)

Q. Code: 103046

Time: Three hours

Maximum : 100 marks

Answer **ALL** questions

PART A - (10 X 2 = 20 Marks)

1. **Match the words in column A with their meanings in column B:**

A	B
a. contaminated	fleet
b. depletion	rise
c. convoy	polluted
d. escalate	lessening
2. **Fill in the blanks with suitable articles.**
 - a. He received ____ honorarium of Rs.5000 for his speech.
 - b. Studying in ____ university like Stanford is prestigious.
 - c. _____ Bible is _____ only book translated into many languages.
3. **Complete the blanks with the suitable prefixes:**
 - a. to go around the world - _____ navigate
 - b. a big super market - _____ market
 - c. to be greater in number - _____ number
 - d. to distribute - _____ centralize
4. **Fill in the blanks with suitable prepositions.**
 - a. Is there a great difference _____ British and American English?
 - b. I have great passion _____ teaching.
 - c. The Japanese have developed a new system called 'Real Dream' that specializes _____ the development _____ virtual reality system.
5. **Frame two sentences using each of the following words as different parts of speech:**
 - a. plant
 - b. drive
6. **Combine the following sentences using appropriate connectives to show causal relation:**
 - a. H1B Visa rules have become very strict. The number of applicants decreased.
 - b. In plant training is given to students. They update their practical knowledge.
7. **Use the numerical expressions as adjectives:**
 - a. an investment of Rs. 3,00,000
 - b. pipes having an id of 3 inches
 - c. an incline of 52 degrees
 - d. at intervals of 10 minutes
8. You are the NCC Under Officer of your college. Send a short e-mail to all the cadets in your college about the change in the NCC camp that was scheduled.

9. **Fill in the blanks with the correct form of verbs:**

Thinking ahead _____ (be) the privilege given to man alone. Man _____ (learn) from the past experience, _____ (analyse) the present and _____ (plan) for the future.

10. **Fill in the blanks with the appropriate adverbs:**

- a. Your answer is _____ right.
- b. Mr. Brendon arrived _____ this morning.
- c. The essay is _____ written.
- d. Jessintha _____ visits her grandmother in her village.

PART B - (5 X16 = 80 Marks)

11. (a) **Read the following passage and answer the questions that follow it:**

(16)

Japan was hit by an enormous earthquake on March 11, 2011, that triggered a deadly 23-foot tsunami in the country's north. The giant waves deluged cities and rural areas alike, sweeping away cars, homes, buildings, a train, and boats, leaving a path of death and devastation in its wake. Video footage showed cars racing away from surging waves. The United States Geological Survey reported the earthquake and on Monday revised its magnitude from 8.9 to 9.0, which is the largest in Japan's history. The earthquake struck about 230 miles northeast of Tokyo. The Pacific Tsunami Warning Center issued warnings for Russia, Taiwan, Hawaii, Indonesia, the Marshall Islands, Papua New Guinea, Australia, and the west coasts the U.S., Mexico, Central America, and South America. As of Wednesday, March 16, more than 4,300 were confirmed dead. That number will likely continue to rise with more than 8,000 people still missing.

A tsunami is a series of huge waves that occur as the result of a violent underwater disturbance, such as an earthquake or volcanic eruption. The waves travel in all directions from the epicentre of the disturbance. The waves may travel in the open sea as fast as 450 miles per hour. As they travel in the open ocean, tsunami waves are generally not particularly large—hence the difficulty in detecting the approach of a tsunami. But as these powerful waves approach shallow waters along the coast, their velocity is slowed and they consequently grow to a great height before smashing into the shore. They can grow as high as 100 feet; the Indian Ocean tsunami generated waves reaching 30 feet. *Tsunami* is the Japanese word for "harbour wave." They are sometimes mistakenly referred to as tidal waves, but tsunamis have nothing to do with the tides. Tsunamis have been relatively rare in the Indian Ocean, and are most common in the Pacific Ocean.

Disaster struck again on Saturday, March 12, when about 26 hours after the earthquake, an explosion in reactor No. 1 at the Fukushima Daiichi Nuclear Power Station caused one of the buildings to crumble to the ground. The cooling system at the reactor failed shortly after the earthquake. Officials feared that a meltdown may occur, and radioactive material was detected outside the plant. These fears were realized on Sunday, when officials said they believed that partial meltdowns occurred at reactors No. 1 and No. 3. The cooling systems at another plant, Fukushima Daini, were also compromised but the situation there seemed to be less precarious. More than 200,000 residents were evacuated from areas surrounding both facilities. Problems were later reported at two other nuclear facilities. By Tuesday, two more explosions and a fire had officials and workers at the Fukushima Daiichi Nuclear Power Station struggling to regain control of four reactors. The fire, which happened at reactor No. 4, released radioactivity directly into the

atmosphere. On Wednesday, March 16, while safety workers were still trying to contain the fire at reactor No. 4, officials announced that reactor No. 3 may have ruptured and appeared to be releasing radioactive steam.

The Japanese government told people living within 20 miles of the Daiichi plant to stay indoors, not use air conditioning, and keep their windows closed. More than 100,000 people are in the area. According to Tokyo Electric Power, the plant's operator, 5 workers have died and 22 more have suffered various injuries since the quake. At a news conference on Sunday, Prime Minister Naoto Kan emphasized the gravity of the situation. "I think that the earthquake, tsunami, and the situation at our nuclear reactors make up the worst crisis in the 65 years since the war. If the nation works together, we will overcome," he said. The government called in 100,000 troops to aid in the relief effort. The deployment is the largest since World War II.

a) Read the text and match the headings with the relevant paragraphs

Column A	Column B
1. Paragraph I	Nuclear Disaster in Japan
2. Paragraph II	Tsunami in Japan
3. Paragraph III	Disaster Management
4. Paragraph IV	The Science of Tsunami

b) Give the most suitable meanings of the following words as they are used in the text choosing from the lists given below:

- | | | | | |
|----------------|------------------|-----------------|--------------------|--------------|
| 5. deluged: | a. flooded | b. covered | c. entered | d. damaged |
| 6. crumble: | a. feeble | b. crisis | c. smash | d. slow |
| 7. precarious: | a. justified | b. reasonable | c. complicated | d. dangerous |
| 8. compromise: | a. confrontation | b. conciliation | c. incitement | d. deterrent |
| 9. disaster: | a. privilege | b. dispensation | c. indulgence | d. adversity |
| 10. gravity: | a. insignificant | b. seriousness | c. inconsequential | d. trivial |

c) Fill in the blanks with the appropriate words or phrases to complete the sentences given below:

11. Partial meltdowns occurred at reactors No. 1 and No. 3 in Japan because _____.
12. The 2011 Tsunami in Japan is the worst crisis that the country has faced since _____.
13. There is difficulty in detecting the approach of a tsunami because _____.
14. The largest use of forces in the history after World War II is _____.
15. Tsunami occurs due to _____.

d) 16. Identify a suitable title for the passage.

(OR)

- (b) Write two paragraphs on the process of online shopping using appropriate sequence words. **(16)**
12. (a) You have bought a new TV, for the front office of your showroom, from a dealer at your place. After a few days it became faulty. Write a complaint letter to the dealer explaining the problem and state what action should be taken. Assume necessary details. **(16)**

(OR)

- (b) Write a letter to your Head of the Department seeking permission to go on an Industrial Visit. Assume necessary details. **(16)**

13. (a) Rearrange the sentences given below in the right logical order: **(16)**
- i) But for this ore-heating mechanism, starting the diesel engine will be difficult.
 - ii) Therefore, diesel engines are heavier than petrol engines.
 - iii) The diesel engine is an increasingly popular engine in automobiles.
 - iv) Finally, diesel engines are noted for their noise, vibration and smoke.
 - v) However, plugs are available to preheat the engine.
 - vi) But, it has its own disadvantages.
 - vii) Another disadvantage is that diesel engines are difficult to start in cold weather.
 - viii) For one, the higher compression that makes the diesel more efficient necessitates the use of heavier engine components.

(OR)

- (b) You are the maintenance Engineer in your company. Recently a fire accident took place in your company. Write a report on the accident to the GM of your company. Assume other details. **(16)**

14. (a) Read the following advertisement and write a letter of job application for the said post. Enclose your resume. Assume other necessary details. **(16)**
- A reputed shipping company which is head-quartered at Mumbai requires Senior Technical Superintendent – Cruise for their upcoming multi-crore project at Chennai. Suitable candidates with B.E. Marine Engineering from reputed institutions, with at least 5 years of experience in related field need apply. Age should not exceed 35 years. Salary negotiable.

(OR)

- (b) You have to go to Visakhapatnam to attend an interview. Prepare a checklist to help you get ready for the interview. Give a proper title. **(16)**

15. (a) You are the HoD of your department. You intend expanding the laboratory facilities. Draft a proposal to be submitted to the AICTE. Assume necessary details. **(16)**

(OR)

- (b) Write an essay on water as a precious natural resource that has to be spent carefully. **(16)**