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Reg. No. :

Question Paper Code : 90742

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

Second Semester

Civil Engineering

HS 8251 – TECHNICAL ENGLISH

(Common to: All Branches (Except Marine Engineering))

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Choose the appropriate verb that agrees with the subject in the following sentences: (4 × ½ = 2)
- (a) There (was, were) fifteen candies in that bag. Now there (is, are) only one left.
- (b) The committee (debates, debate) these questions carefully.
- (c) The committee members (leads, lead) very different lives in private.
2. Write compound words in the blanks below combining two words given in the brackets, which suit the meaning of the sentences. (4 × ½ = 2)
- (Point, telling, feed, blue, story, collar, power, back)
- (a) Students should be ready to accept _____ which can be useful for them.
- (b) The _____ impressed the audience and they paid rapt attention to the whole presentation.
- (c) She underwent a few training sessions on _____ before she joined a school for special children.
- (d) The _____ workforce is the prime reason for a country's development.

3. Write definitions for any of the two following terms: (2 × 1 = 2)
mobile app, website, graphene, artificial intelligence
4. Rewrite the following sentences in the passive voice: (2 × 1 = 2)
(a) Many youngsters watched The Rocket Boys, a popular web series about the Indian Space Program.
(b) The coach trained the players extremely well.
5. Write the correct numerical adjective for the following phrases: (4 × ½ = 2)
(a) A train containing twenty compartments.
(b) A committee of five members.
(c) A ground of five hundred square metres.
(d) A tank of 50 gallons.
6. Identify the word with the correct spelling in each line. (4 × ½ = 2)
(a) ccasion ocasion, ocassion
(b) seperate, separate, separate
(c) comparitive, comparative, comparrative
(d) frightening, frightning, frighting
7. The sentences below describe the process by which an app can be downloaded on a mobile phone. Choose the most suitable sequence word from the options given, to fill in the blanks. (4 × ¼ = 2)
(finally, initially, next, secondly, first)
(a) _____ the app has to be downloaded on the mobile.
(b) _____ click on sign up to create an account.
(c) _____ enter all the details.
(d) _____ you will be able to log in and use it.
8. Convert the following into indirect speech: (2 × 1 = 2)
The captain said, "The victory belongs to the bowlers today who performed so well that the opponent team, though in great form now was totally stunned"
9. Choose the appropriate synonym from the options given, for the words highlighted in the sentences: (4 × ¼ = 2)
(a) The ubiquitous nature of the internet has made life easy.
(i) affluent (ii) omnipresent (iii) expensive (iv) cheap
(b) By implementing the scheme, there will be a change
(i) entangling (ii) carrying out (iii) guiding (iv) displacing

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- (c) This pump works on the pneumatic principle.
(i) automatic (ii) elastic (iii) pertaining to air (iv) sick
- (d) We plan to ascend at least 15 km today.
(i) leap (ii) grow (iii) deviate (iv) climb
10. Complete the sentences using the correct conditional phrases: $(4 \times \frac{1}{2} = 2)$
- (a) If the rain had lasted the whole night, then the roads _____
(flood).
- (b) We will go on an industrial visit, if the Dean _____. (agree)
- (c) If I had seen this mail earlier, I _____ (replied) at once.
- (d) Techofes Week will be conducted as planned, if it _____ (do) not rain.

PART B — $(5 \times 16 = 80 \text{ marks})$

11. Read the following passage and answer the questions given below: (16)

The meteorite about 10,000 tons, entered the atmosphere at a speed of 64,000km/h and exploded over a city with a blast of 500 kilotons. But on 15 February 2013, we were lucky. The meteorite that showered pieces of rock over Chelyabinsk, Russia, was relatively small, only about 17 metres wide. Although many people were injured by the falling glass, the damage was nothing compared to what had happened in Siberia nearly one hundred years ago. Another relatively small object (approximately 50 metres in diameter) exploded in mid-air over a forest region, flattening about 80 million trees. If it had exploded over a city such as Moscow or London, millions of people would have been killed. By a strange coincidence, the same day that the meteorite terrified the people of Chelyabinsk, another 50m-wide asteroid passed relatively close to the earth. Scientists were expecting the visit and know that the asteroid will return to fly close by us in 2046, but the Russian meteorite earlier in the day had been too small for anyone to spot.

Most scientists agree that comets and asteroids pose the biggest natural threat to human existence. It was probably a large asteroid or comet colliding with earth which wiped out the dinosaurs about 65 million years ago. An enormous object, 10 to 16km in diameter, struck the Yucatan region of Mexico with a force of 100 megatons. That is the equivalent of one Hiroshima bomb for every person alive on earth today. Many scientists, including the late Stephen Hawking, say that any comet or asteroid greater than 20km in diameter that hits earth will result in the complete destruction of complex life, including all animals and most plants. As we have seen, even a much smaller asteroid can cause great damage.

The earth has been safe for the last 65 million years by good fortune and the massive gravitational field of planet Jupiter. Our cosmic guardian, with its stable circular orbit far from the sun, sweeps up and scatters away most of the dangerous comets and asteroids which might cross the earth's orbit. After the Chelyabinsk meteorite, scientists are now monitoring potential hazards even more carefully but, as far as they know, there is no danger in the foreseeable future. Types of space rocks include a comet which is a ball of rock and ice that sends out a tail of gas and dust behind it. Bright comets only appear in our visible night sky about once every ten years. An asteroid is a rock a few feet to several km in diameter. Unlike comets, asteroids have no tail. Most are too small to cause any damage and burn up in the atmosphere. They appear to us as shooting stars'. A meteoroid is a part of an asteroid or comet. Meteorite is what a meteoroid is called when it hits the earth.

A. Answer the following questions appropriately choosing the right option.

(8 × 1 = 8)

(i) The damage caused by the Russian meteorite _____

- (a) could have been much worse
- (b) was huge
- (c) was greatly reduced by the early warning system
- (d) was much worse than the one in Siberia one hundred years ago

(ii) The Siberian meteorite _____.

- (a) hit a forest
- (b) hit a big city
- (c) caused glass to shower over people
- (d) damaged trees when it exploded

(iii) On the same day as the meteorite exploded over Chelyabinsk, _____

- (a) there was another, related asteroid event
- (b) there was another, unrelated, asteroid event
- (c) scientists realised that an even bigger asteroid could hit Earth
- (d) scientists issued a warning for 2046

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- (iv) The Russian meteorite _____.
- (a) had been predicted by scientists
 - (b) came as a surprise
 - (c) was too small to worry about
 - (d) will come close to the earth again in the future
- (v) Experts say that comets and asteroids could _____.
- (a) wipe out all animal life, leaving only plants
 - (b) kill a significant proportion of the earth's human population
 - (c) put an end to all plant and animal life on Earth
 - (d) cause as much damage as the Hiroshima bomb
- (vi) A small asteroid _____.
- (a) can still cause a lot of damage
 - (b) is not a problem if it is spotted early
 - (c) cannot cause any significant harm
 - (d) is actually more dangerous than a larger one
- (vii) The earth has been relatively safe thanks to _____.
- (a) pure luck
 - (b) luck and the protective force of another planet from our solar system
 - (c) early warning systems set up by NASA
 - (d) luck and our position in relation to the sun
- (viii) Scientists say _____.
- (a) it is impossible to monitor all the potential hazards
 - (b) we are not in any danger at the moment
 - (c) a meteorite is likely to hit the earth sooner or later
 - (d) their early warning systems will protect us

B. Complete the gaps in the sentences by choosing a word from the options given in bracket. (8 × 1 = 8)

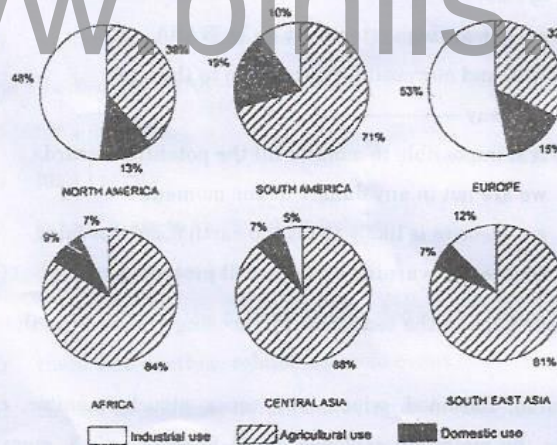
(Spot, injured, flattened, wiped, out, cross, struck, monitor, cause)

- (i) When the meteorite exploded on 15 February 2013, many people were _____ by falling glass.
- (ii) The explosion of another small object _____ many trees.

- (iii) Scientists weren't expecting the Russian meteorite because it had been too small for anyone to _____.
- (iv) It was probably a large asteroid colliding with the Earth that _____ the dinosaurs.
- (v) 65 million years ago, an enormous object _____ the Yucatan region of Mexico with a force of 100 megatons.
- (vi) Even a much smaller asteroid can _____ a lot of damage.
- (vii) Jupiter protects the earth by diverting away the dangerous comets and asteroids that might _____ Earth's orbit.
- (viii) Scientists will now _____ potential hazards even more carefully.

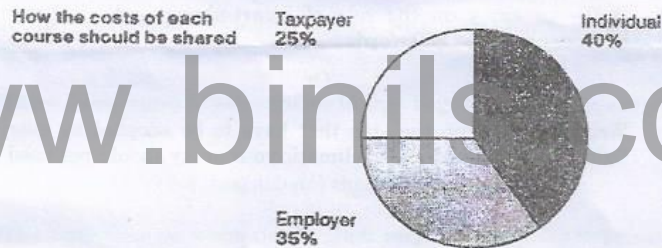
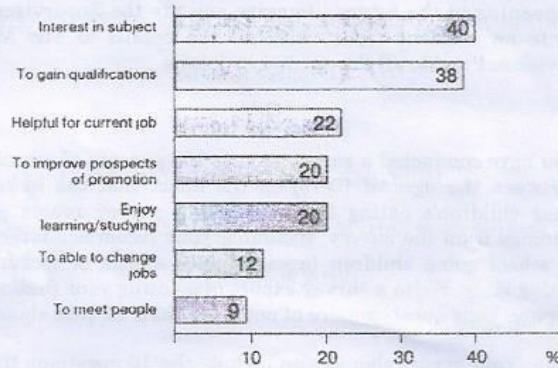
12. (a) The given pie charts represent the distribution of the percentage of water used for different purposes in six major geographical areas of the world. Compare, the charts and write a paragraph interpreting the data in there in 200 words. (16)

Percentage of water used for different purposes in six areas of the world



Or

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- (b) Study the bar graph given below represents the different reasons why adults want to pursue higher studies. The following pie chart shows their opinion about how the cost for their studies should be shared by the other sections of the society. Analyse both the data and write a paragraph not exceeding 200 words, highlighting the major uses of comparison.



13. (a) Benz Industries is currently looking for junior executives with engineering degrees in various departments for their new projects. Apply for the post with a detailed resume to the email id careers.benz@benzindia (16)

Or

- (b) You are planning to apply for an internship at Aditya Birla C Group. Write a cover letter and enclose your resume for the internship position. Send it to, The General Manager-Internships, Aditya Birla Groups, Chennai. (16)

14. (a) You are the supervisor in-charge of a PetroChem, in Mumbai which produces a range of products from wax to naphtha, mostly petroleum based. There was a fire accident in the warehouse on 15th September 2022. The Manager of the Safety Division has asked you to conduct a preliminary inquiry into accident and submit a report to him. Write the preliminary accident report with the covering letter addressed to the manager also include recommendations to prevent such accidents from happening in the future. Imagine you are the Supervisor In-charge and write an accident report with all the details to The Manager, Safety Division. Provide all the necessary details. (16)

Or

- (b) You have conducted a survey among 100 parents of school-going children (between the ages of 10-13) on the effect that the lockdown(s) had on their children's eating habits. Write a survey report presenting your findings from the survey, including your recommendations. 100 parents of school going children (ages 10 -13) effects of lockdown(s) on their eating style. Write a survey report presenting your findings based on the survey. Your questionnaire of not more than 10 ques should provide.

Note: Your report should also include the 10 questions that were of your survey questionnaire.

15. (a) Write an essay on the role of smart-phone in leading primary level business in about 250 words. (16)

Or

- (b) Write an essay on the step that have to be adopted by every citizen to fight the adverse effects of climatic your essay should not used 250 words. (16)