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Question Paper Code : 11590

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2026.

First Semester

Civil Engineering

HS3152 — PROFESSIONAL ENGLISH – I

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

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Fill in the blanks with suitable tenses. (4 × ½ = 2)
 - (a) Water _____ (boil) at 100°C.
 - (b) The teacher _____ (explain) the lesson now.
 - (c) I _____ (write) an assignment at the moment.
 - (d) He never _____ (eat) junk food.
2. Expand the following abbreviations (2 × 1 = 2)
 - (a) PIN
 - (b) GPS
3. Complete the following table by adding appropriate suffixes to make different parts of speech of the given word. (8 × ¼ = 2)

Noun	Verb	Adjective
creation		
	answer	
		successful
		strong

4. Define any two of the words given below. (2 × 1 = 2)
- (a) Compass
 - (b) Generator
 - (c) Flow chart
 - (d) Dictionary
5. Fill in the blanks in the following sentences with the suitable form of the verb given in brackets: (4 × ½ = 2)
- (a) A set of tools _____ (is/are) required for the experiment.
 - (b) Mathematics _____ (is/are) an interesting subject.
 - (c) The results of the experiment _____ (show/shows) significant improvement.
 - (d) A number of students _____ (is/are) absent today.
6. Expand the following compound nouns: (4 × ½ = 2)
- (a) Wind energy
 - (b) Water tank
 - (c) Electric stove
 - (d) Fire extinguisher
7. Choose the appropriate one-word substitute from the options given for the following phrases: (2 × 1 = 2)
- (a) A place where animals are kept:
 - (i) Museum
 - (ii) Aquarium
 - (iii) Zoo
 - (iv) Library
 - (b) A person who cannot read or write:
 - (i) Literate
 - (ii) Scholar
 - (iii) Illiterate
 - (iv) Graduate

8. Complete the following sentences choosing appropriate causal expressions such as because of, due to, since, as a result, therefore (without repeating any). (4 × ½ = 2)
- (a) The device failed _____ improper maintenance.
 - (b) The road was flooded _____ continuous rain.
 - (c) The system was updated; _____ performance improved.
 - (d) _____ the temperature increased, the pressure also rose.
9. Frame wh-questions for the statements given below: (2 × 1 = 2)
- (a) The engineer completed the project in two months.
 - (b) The students conducted the experiment in the laboratory yesterday.
10. Each sentence has an error. Find and correct it. (2 × 1 = 2)
- (a) The data collected from the experiment are not sufficient enough to draw conclusions.
 - (b) Neither the engineers nor the supervisor were aware of the design flaw.

PART B — (5 × 16 = 80 marks)

11. Read the passage and answer the questions. (1 × 16 = 16)

Electric Vehicles and the Future of Transportation

Electric Vehicles (EVs) are rapidly transforming the global transportation sector. Unlike conventional vehicles that rely on internal combustion engines, EVs use electric motors powered by rechargeable batteries. This shift is largely driven by the need to reduce greenhouse gas emissions and dependence on fossil fuels.

One of the major advantages of EVs is their environmental impact. Since they do not emit tailpipe pollutants, they help improve air quality, especially in urban areas. However, it is important to note that the overall environmental benefit depends on how the electricity used to charge these vehicles is generated. If renewable energy sources such as solar or wind are used, the impact is significantly positive.

Despite their advantages, EVs face several challenges. The high initial cost of batteries, limited driving range, and lack of adequate charging infrastructure are some of the key concerns. Governments and private companies are actively investing in research and development to overcome these barriers. Incentives such as tax rebates and subsidies are also encouraging consumers to adopt EVs.

Technological advancements are steadily improving battery efficiency and reducing costs. Innovations such as fast-charging stations and solid-state batteries are expected to make EVs more practical and accessible in the near future. As awareness increases and technology evolves, electric vehicles are likely to play a crucial role in creating a sustainable and energy-efficient transportation system.

- (a) Choose the most appropriate option and answer the questions.
- (i) Why is the global shift towards Electric Vehicles (EVs) increasing?
 - (1) To improve vehicle speed and design
 - (2) To reduce environmental pollution and reliance on fossil fuels
 - (3) To increase fuel consumption efficiency
 - (4) To promote luxury transportation
 - (ii) How can the use of renewable energy sources enhance the effectiveness of EVs?
 - (1) By increasing the cost of electricity
 - (2) By making EVs heavier and more durable
 - (3) By reducing overall carbon emissions associated with charging
 - (4) By limiting the range of EVs
 - (iii) Which of the following scenarios best maximizes the environmental benefits of EV adoption?
 - (1) Charging EVs using coal-based electricity
 - (2) Using EVs only for short-distance travel
 - (3) Charging EVs using solar or wind energy
 - (4) Manufacturing EVs in large quantities
 - (iv) What could be the most effective long-term solution to increase EV adoption in developing countries?
 - (1) Increasing fuel prices
 - (2) Reducing public transportation systems
 - (3) Expanding charging infrastructure and reducing battery costs
 - (4) Limiting vehicle ownership
 - (v) What is the most logical outcome if EV technology continues to advance rapidly?
 - (1) Complete disappearance of transportation systems
 - (2) Increased dependence on fossil fuels
 - (3) Wider adoption due to improved efficiency and affordability
 - (4) Reduction in technological innovation

- (vi) How are governments effectively promoting the adoption of Electric Vehicles?
- (1) By increasing taxes on EVs
 - (2) By reducing the production of vehicles
 - (3) By offering subsidies, tax rebates, and incentives
 - (4) By banning all conventional vehicles immediately
- (b) State whether the following statements are True or False.
- (vii) EVs completely eliminate environmental impact.
- (viii) Lack of charging infrastructure is a challenge for EVs.
- (ix) Governments are supporting EV adoption.
- (c) Find a word from the passage that means:
- (x) “able to be recharged”
- (xi) “financial support given by the government”
- (xii) “introduction of new ideas or methods”.
- (d) Fill in the Blanks
- (xiii) EVs help reduce dependence on _____ fuels.
- (xiv) Fast-charging stations are an example of technological _____ in EVs.
- (e) Rearrange the following words to frame a meaningful sentence.
- (xv) improving / technology / efficiency / battery / is / rapidly
- (xvi) dependence / reduce / on/ help / EVs / fuels / fossil
12. (a) Write a letter to your friend describing your experience of attending a technical workshop. Share what you learned and how it was useful to you. Include the points given below, (16)
- * Place and purpose of the workshop
 - * Key learning points
 - * Interaction with experts
 - * Personal benefit

Or

- (b) Write a letter to the Editor of a leading newspaper expressing your concern about the excessive use of mobile phones among students and its impact on their academic performance and health. Suggest possible measures to address the issue. Include the points given below. (16)

- * Increasing screen time among students
- * Effects on studies and concentration
- * Health issues (eye strain, sleep disturbance)
- * Suggestions (awareness, parental control, balanced usage)

13. (a) The following instructions are in a jumbled order. Rearrange them to form a clear and logical sequence.

- (i) Enter your login credentials and access your account.
- (ii) Upload the assignment file from your device.
- (iii) Open the official learning management system (LMS) website.
- (iv) Verify that the correct file has been selected.
- (v) Navigate to the "Assignments" section of the course.
- (vi) Click on the "Submit" button to complete the process.
- (vii) Ensure that the file format meets the required specifications.
- (viii) Log out of the system after submission.

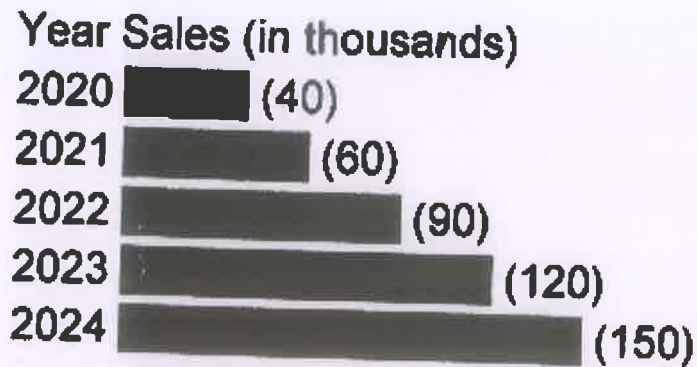
Or

- (b) The following sentences are in a jumbled order. Rearrange them to form a logical process description.

- (i) The pump is switched on to start the operation.
- (ii) The rotating impeller creates a low-pressure area inside the pump.
- (iii) Water is drawn into the pump through the inlet pipe.
- (iv) The motor provides energy to rotate the impeller.
- (v) The water gains kinetic energy due to the rotation.
- (vi) The high-pressure water is pushed out through the outlet pipe.
- (vii) This pressure difference causes water to move into the pump.
- (viii) As a result, water is transported from a lower level to a higher level.

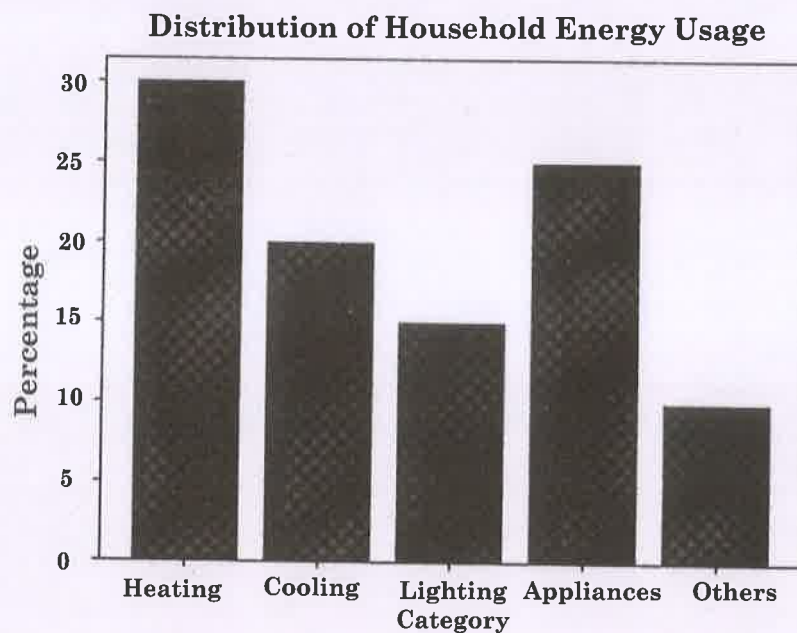
14. (a) Analyse and interpret the data given below and prepare a summary.

EV sales



Or

- (b) Analyse and interpret the data based on the bar chart given below, and prepare a summary.



15. (a) Write an essay describing the importance of protecting the environment. Explain the causes of environmental degradation and suggest practical measures to ensure a sustainable future. (220-250 words).

Or

- (b) Many people think that fast food has become a major cause of health problems among young people. Do you agree with this view? Discuss your opinion in an essay with relevant examples. (220-250 words).

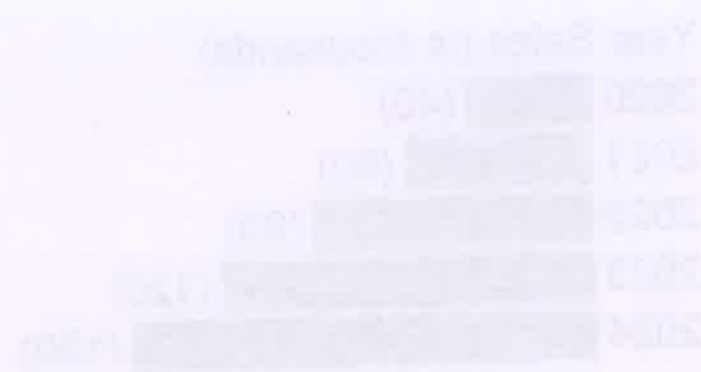


Fig. 1

The distribution of health complaints by age group is shown in Figure 1. The number of complaints increases with age, with the highest number of complaints reported by the 71+ age group.

Figure 2: Bar chart showing the distribution of health complaints by gender. The y-axis represents the number of complaints (0 to 1000). The x-axis represents gender (Male, Female).

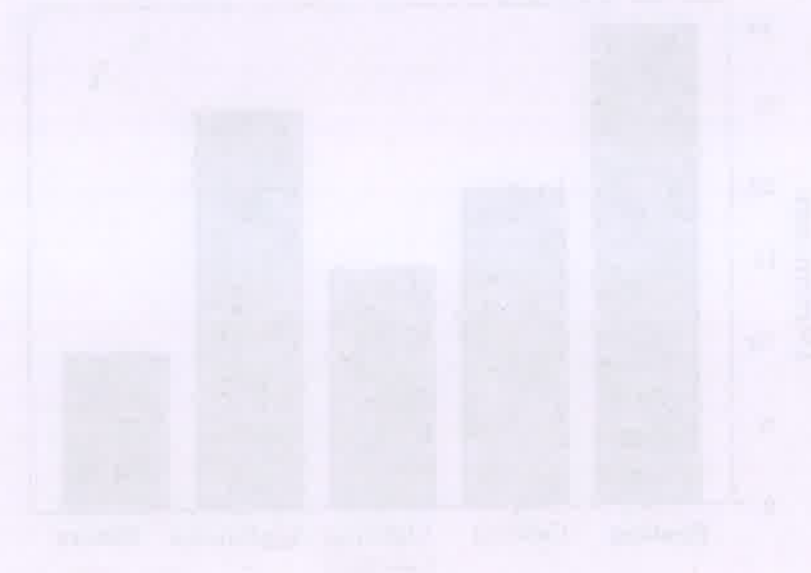


Fig. 2

The distribution of health complaints by gender is shown in Figure 2. The number of complaints is higher for females than for males.

Fig. 3

The distribution of health complaints by occupation is shown in Figure 3. The number of complaints is highest for the 'Other' category, followed by 'Service' and 'Professional'.