

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2025

Second Semester

Civil Engineering

(Common to All Branches Except CSBS)

24HSEN201 - PROFESSIONAL ENGLISH

Regulations - 2024

Duration: 3 Hours

Max. Marks: 100

PART - A (MCQ) (10 × 1 = 10 Marks)

Answer ALL Questions

	<i>Marks</i>	<i>K- Level</i>	<i>CO</i>
1. Choose the correct verb form The list of candidates _____ been finalized and sent to the review committee. (a) has (b) have (c) was (d) were	1	K1	CO1
2. Choose the correct answer The chef conducted an _____ to create the perfect fusion dish. (a) experiment (b) experience	1	K1	CO1
3. Choose the correct reported speech The researcher stated, "This material exhibits high durability under stress." (a) The researcher stated that this material exhibits high durability under stress. (b) The researcher stated that this material exhibited high durability under stress. (c) The researcher stated that this material had exhibited high durability under stress. (d) The researcher stated that this material was exhibiting high durability under stress.	1	K1	CO2
4. Identify the grammatically correct phrase using numerical adjectives A task that takes 5 minutes is called: (a) A five-minutes task (b) A five-minute task (c) A five-minute's task (d) A five-minutes' task	1	K1	CO2
5. Choose the suitable Discourse Markers The new policy will reduce costs significantly. _____, it will improve productivity. (a) Moreover (b) However (c) In contrast (d) In addition to	1	K1	CO3
6. Combine the sentences using Cause and Effect Expressions The company suffered huge losses last quarter. It had to shut down two of its branches.	1	K1	CO3
7. Fill in the blank with suitable degrees of comparison Usain Bolt is one of the _____ athletes in sprinting history. (fast)	1	K1	CO4
8. Find the embedded clause in the given sentence The car that he bought last week is already having issues.	1	K1	CO4
9. Choose the correct verbal analogy PALATE : MOUTH :: (a) rainbow : sky (b) rivulet: dam (c) hill: range (d) ceiling : room	1	K1	CO5
10. Choose the grammatically correct sentence (a) The machine learning model was trained on huge datas. (b) The machine learning model was trained on a huge data. (c) The machine learning model was trained on huge data. (d) The machine learning model was trained on a huge dataset.	1	K1	CO6

PART - B (12 × 2 = 24 Marks)

Answer ALL Questions

11. Fill in the blank with the appropriate verb form. The software developers _____ (test) the application for bugs before its release.	2	K1	CO1
12. Name two differences between a Blog and a Vlog.	2	K1	CO1
13. Change the following sentences into Reported speech. The scientist said to his team, "If we optimize solar panels, they will generate more energy."	2	K1	CO2

14. Rewrite the following as numerical expression. 2 K1 CO2
A marathon that lasts 42 kilometers.
15. Combine the sentences using Cause and Effect Expressions. 2 K1 CO3
She studied all night for the exam. She scored the highest marks in her class.
16. Fill in the blank with suitable discourse markers 2 K1 CO3
She enjoys playing outdoor sports. _____, she loves hiking and rock climbing.
17. Expand the following abbreviations. 2 K1 CO4
POV, RBI
18. Fill in the blank with suitable degrees of comparison. 2 K1 CO4
Instagram loads _____ on 5G networks compared to 4G. (fast)
19. Choose the correct meaning of the phrasal verb as used in the sentence. 2 K1 CO5
The system *crashed out* during the demo.
(a) Became overloaded (b) Shut down unexpectedly
(c) Disconnected safely (d) Restarted itself
20. Choose the correct meaning of the phrasal verb as used in the sentence. 2 K1 CO5
We had to *figure out* the API response.
(a) Skip over (b) Decode or understand (c) Rewrite (d) Delete
21. Choose the correct meaning of the idiom. 2 K1 CO6
That engineer really *thinks on her feet* during system failures.
(a) Escapes quickly (b) Panics easily (c) Solves problems instantly (d) Takes a break
22. Find the errors and rewrite the following sentence correctly. 2 K1 CO6
He explaine about the machine learning model in detail on students who studies Engineering.

PART - C (6 × 11 = 66 Marks)

Answer ALL Questions

23. a) You are planning a weekend camping trip with your friends. Prepare a checklist to ensure that you have everything needed for a safe and enjoyable experience. 11 K2 CO1
- OR**
- b) Your college is hosting a Hackathon next month. Help yourself with a checklist to organize the event smoothly and engage participants effectively. 11 K2 CO1
24. a) **Summarize the following article 200 words** 11 K2 CO2
Artificial Intelligence (AI) is transforming the healthcare industry by enhancing medical diagnostics, personalizing treatment plans, and improving patient outcomes. AI-powered systems can process vast amounts of medical data, detect patterns, and assist healthcare professionals in making accurate diagnoses. According to a 2023 report by Statista, the global AI in healthcare market is projected to reach \$188 billion by 2030, growing at a CAGR of 37%. This surge is driven by the increasing adoption of AI for disease prediction, robotic surgery, and drug discovery.

Machine learning algorithms analyze patient data to identify early signs of diseases such as cancer, Alzheimer's, and cardiovascular conditions. For instance, Google's DeepMind developed an AI model that can detect over 50 eye diseases with 94% accuracy, surpassing human ophthalmologists. AI is also revolutionizing radiology by enhancing imaging techniques and reducing diagnostic errors. A study published in The Lancet Digital Health found that AI-powered radiology tools improved lung cancer detection rates by 11% compared to traditional methods.

Additionally, AI is playing a crucial role in drug discovery and development. Traditional drug discovery methods can take over a decade and cost billions of dollars. AI accelerates this process by analyzing vast chemical libraries and predicting the effectiveness of drug compounds.

According to a 2022 report by McKinsey, AI-driven drug discovery can reduce development costs by up to 70%. For example, the AI platform Atomwise has identified promising drug candidates for diseases such as Ebola and multiple sclerosis.

AI-powered chatbots and virtual health assistants enhance patient engagement by providing real-time health recommendations, appointment scheduling, and symptom assessment. This has been particularly beneficial in telemedicine, which saw a 600% increase in usage during the COVID-19 pandemic, according to a report by the American Medical Association. Despite these advancements, ethical concerns such as data privacy, bias in algorithms, and regulatory compliance remain significant challenges. However, with continuous research and development, AI is expected to play a crucial role in revolutionizing healthcare.

OR

- b) Write two paragraphs on “The role of Engineers in nation’s development”. 11 K2 CO2
25. a) The Engineering team at L&T is discussing strategies to improve construction timelines for a new project. Prepare an agenda and minutes for the meeting. 11 K3 CO3
- OR**
- b) A technology firm plans to set up an Electronics Assembly unit in a suburban area close to City A. Write a feasibility report concerning the procurement of electronic components and the availability of technically skilled workers. 11 K3 CO3
26. a) Imagine that you have been invited to speak at a seminar on Renewable Energy hosted by NIT Calicut. Write a letter accepting the invitation. 11 K3 CO4
- OR**
- b) Your company is organizing a team-building event. Write a formal letter inviting the CEO of a partner company to attend as a special guest. 11 K3 CO4
27. a) Draft a resume for a Senior Cloud Architect applying for a remote position. Include experience in cloud platforms, DevOps practices, and leadership skills in managing remote teams. 11 K3 CO5
- OR**
- b) Construct a job application letter responding to a remote software developer position at a leading tech company like Microsoft or Google. Focus on demonstrating your technical skills in programming languages, GitHub contributions, and how you adapt to remote collaboration tools like Zoom, Slack, and Jira. 11 K3 CO5
28. a) Write a blog post explaining the role of blockchain technology in enhancing data security in remote work environments. Focus on simplifying technical terms for a non-technical audience and highlight current industry trends. 11 K3 CO6
- OR**
- b) Write a blog post on the role of AI in sustainability, specifically focusing on how AI can optimize energy consumption in smart cities. Use technical examples to explain how AI algorithms predict energy needs, reducing waste and improving efficiency. 11 K3 CO6