

B.Sc. (NEP) Sem.-5 Examination

SEC-356

Computer Science

November-2025

Time : 1-00 Hour

[Max. Marks : 25]

**Answer the following question .(25 Marks)**

[Q-1] a) What is Contextual Prompting? Give suitable examples of its use in summarization or translation. [ 5 ]

Or

a) Explain the concept of Prompt Customization and Personalization with real-world examples.

[Q-2] a) Define LLMs (Large Language Models). Explain how prompt engineering influences their responses. [ 5 ]

Or

a) Discuss Interdisciplinary Innovation in the field of Prompt Engineering.

[Q-3] a) Explain the role of Error Identification and Context Control in prompt refinement [5]

Or

a) Explain Retrieval-Augmented Generation (RAG) with a neat diagram and its real-world use case.

[Q-4] a) Write short notes on: (a) Multi-agent Systems (b) Input Semantics [ 5 ]

Or

a) Compare Manual and Automatic Prompt Engineering techniques with examples.

[Q-5] Answer the following question . [ 05]

1. In AI systems, a "prompt" primarily refers to:

- a) A question or instruction given to the model
- b) A programming language. c) A dataset. d) An algorithm

2. LLMs stand for:

- a) Large Language Models. b) Logical Learning Machines

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- c) Language Learning Methods. d) Linear Logic Models
3. Which of the following is a Prompt Pattern Type?
- a) Command Pattern. b) Instructional Pattern  
c) Problem-Solution Pattern. d) All of the above
4. Multi-modal prompting allows models to handle:
- a) Only text. b) Text and images/videos/audio together  
c) Only code inputs. d) None of the above
5. The goal of Prompt Improvement is to:
- a) Reduce AI response time. b) Increase the clarity and relevance of output  
c) Change model architecture. d) Remove user input

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