Gen AI — Generative AI (Open Elective)

Scanned question papers, topic-wise · Dec 2025 (QP 25503, 60 marks) + May 2026 (QP 3001, 30 marks)

Every question is the original scanned print from the university paper — nothing re-typed.
Note: the two papers are different formats — Dec is 60 marks / 2 hrs, May is 30 marks / 1 hr. Marks are as printed.

SOLVING QUESTIONS

Topic-wise · Dec 2025 + May 2026 · 0 questions

These two Gen AI papers contain no numerical or worked-example questions.
Every one of the 30 questions asks you to define, explain, list or differentiate.
So there is nothing in the Solving section — all 30 questions are in the
Theory section on the next page, grouped by topic.

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THEORY QUESTIONS

Topic-wise · Dec 2025 + May 2026 · 30 questions

1. Generative AI — Definition, Scope & Data

Dec 2025 · Q1a · 5 marks

a Define Generative AI. Explain its scope with suitable examples? [5]

Dec 2025 · Q1c · 5 marks

c What is the importance of data in training the AI model? [5]

May 2026 · Q1a · 2 marks

(a) Define Generative AI [2]

2. GPT & ChatGPT — What They Are

May 2026 · Q1b · 2 marks

(b) What is GPT and Chat -GPT? [2]

Dec 2025 · Q5a · 7 marks

5 a What is chat-GPT and how does it work? [7]

3. GPT Architecture & Working (asked 3 times — twice in May)

Dec 2025 · Q4b · 7 marks

b Write a short note on the architecture and working of GPT models. [7]

May 2026 · Q2b · 5 marks

(b) Explain architecture and working of GPT models. [5]

May 2026 · Q5b · 5 marks

(b) Explain GPT architecture and working. [5]

Dec 2025 · Q3a · 7 marks

3 a What is the multiread mechanism in GPT? [7]

Dec 2025 · Q6d · 5 marks

d Explain the importance and role of self-attention in GPT models. [5]

4. GPT Variants

Dec 2025 · Q1b · 5 marks

b List any three GPT variants and mention one use case for each. [5]

May 2026 · Q3b · 5 marks

(b) Explain different GPT variants and their applications. [5]

5. LLMs — Large Language Models

Dec 2025 · Q5b · 8 marks

b What is LLM and Types of LLM explain? [8]

May 2026 · Q1c · 2 marks

(c) Define LLM. [2]

Dec 2025 · Q6c · 5 marks

c Differentiate between traditional language models and modern language models. [5]

6. Pre-training, Fine-tuning & Instruct Tuning

Dec 2025 · Q2b · 7 marks

b Explain pre-training and fine tuning and instruct tuning in gen-AI? [7]

May 2026 · Q1d · 2 marks

(d) What is pre-training? [2]

7. CNN — Convolutional Neural Networks

Dec 2025 · Q2a · 8 marks

2 a Explain How CNN Works? [8]

May 2026 · Q2a · 5 marks

2 (a) Explain the architecture of CNN & how it works? [5]

8. RNN, LSTM & Transformers

Dec 2025 · Q3b · 8 marks

b Explain the architecture of RNN & how it works? [8]

May 2026 · Q5a · 5 marks

5 (a) Explain RNN and its limitations. [5]

May 2026 · Q1e · 2 marks

(e) What is LSTM? [2]

May 2026 · Q4a · 5 marks

4 (a) Explain the architecture and working of Transformer models. [5]

May 2026 · Q1f · 2 marks

(f) What is tokenization in transformer model? [2]

9. Generative AI Tools & Real-World Applications

Dec 2025 · Q1d · 5 marks

d Explain "text-to-image" tools with an example. [5]

May 2026 · Q4b · 5 marks

(b) Explain any five Generative AI tools with examples. [5]

Dec 2025 · Q6b · 5 marks

b Explain the importance of Generative AI in any five real-world domains. [5]

10. Challenges & Ethics

Dec 2025 · Q4a · 8 marks

4 a What are the challenges in Generative AI? [8]

Dec 2025 · Q6a · 5 marks

a Ethical concerns related to Generative AI. [5]

May 2026 · Q3a · 5 marks

3 (a) Explain ethical issues in Generative AI. [5]

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