

# SHRI GNANAMBICA DEGREE COLLEGE: MADANAPALLE

(AUTONOMOUS)

COURSE 1: APPLICATIONS OF ARTIFICIAL INTELLIGENCE IN COMPUTERS

SEMESTER II

(W.E.F.2025-26)

Program: BCA & BSC (ALL GROUPS)

QUESTION BANK



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## UNIT-1

### 5 Marks

1. Explain the role of RAM and VRAM in AI applications.
2. Write short notes on HDD vs SSD.
3. What are Online AI Platforms? Give two examples.
4. Differentiate between CPU, GPU and TPU
5. Define Edge AI with two examples.

### 10 Marks

1. Explain the hardware infrastructure required for AI applications in detail.
2. Compare Online Platforms and Desktop No-Code Platforms for AI development.
3. Explain the concept, advantages, and applications of Edge AI.
4. Describe different processors used in AI and their functions.
5. Discuss the role of memory and storage in AI systems

## UNIT-2

### 5 Marks

1. Differentiate Data, Information, and Knowledge.
2. Define Structured, Semi-Structured, and Unstructured Data.
3. What is data licensing?
4. Define GDPR and HIPAA (overview).
5. Mention common data formats for text and images.

### **10 Marks**

1. Explain the importance of data in AI model building.
2. Describe the types and structures of data with examples.
3. Discuss modalities and formats of data in AI.
4. Explain data repositories and licensing issues.
5. Write an essay on Ethics and Privacy in AI Data Usage

### **UNIT-3**

### **5 Marks**

1. List the stages of the AI data pipeline.
2. What are Missing Values and Duplicates
3. Mention two Data Collection Methods
4. What is Normalization
5. Explain Training Set vs Test Set.

### **10 Marks**

1. Explain the complete AI Data Pipeline with stages.
2. Discuss various Data Collection Methods for AI.
3. Explain Data Annotation types and importance.
4. Describe Data Cleaning and Pre-processing steps.
5. Explain Data Transformation Techniques in detail.

### **UNIT-4**

### **5 Marks**

1. Differentiate Vibe Coding vs Traditional Coding.
2. What is Prompt Crafting
3. What are limitations of No-Code AI platforms
4. Give two real-world automation examples

5. Mention tools like Zapier / Power Automate.

**10 Marks**

1. Explain Vibe Coding concept, tools, advantages, and challenges.
2. Compare Traditional Programming and No-Code Development.
3. Discuss Workflow Automation using AI with tools and examples.
4. Explain Prompt Crafting techniques for AI apps.
5. Describe the paradigm shift from code-centric to prompt-centric development.

**UNIT-5**

**5Marks**

1. Why is AI needed in Networking
2. Mention two uses of AI in cybersecurity
3. How does AI help in evidence analysis
4. Define AI-Powered Forensic Tools.
5. What is Traffic Prediction

**10 Marks**

1. Explain the role of AI in Network Management.
2. Discuss AI applications in Cybersecurity with challenges.
3. Explain AI in Digital Forensics and its future scope.
4. Describe how AI works in Intrusion Detection and Traffic Optimization.
5. Write a detailed note on AI in Cybersecurity and Forensic Investigations.