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Subject code: 1-AIF-25

**SHRI GNANAMBICA DEGREE COLLEGE: MADANAPALLE**  
(AUTONOMOUS)

**Four Year Honors Degree Regular Examination January – 2026**

**Semester -I**

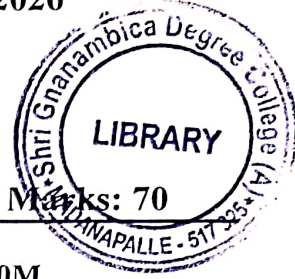
**Subject: AI FUNDAMENTALS**

**Program: All Groups**

**(Under CBCS New Regulation w.e.f the AY 2025-26)**

**Duration: 3 Hrs**

**Max. Marks: 70**



SECTION-A

**Answer any FOUR questions**

**4\*5=20M**

1. Define Artificial intelligence and also explain any four important parts of AI?
2. What is Knowledge Engineering? Explain its steps in AI?
3. Write a short note on Telemedicine and virtual care supported in AI?
4. Explain the role of sensors, cameras and real time data collection devices in enabling AI application?
5. What is Ethics in AI? Why it is needed in Modern AI systems.
6. Write a short note on AI in Astrophysics and Space Research?
7. Write a short note on Chat GPT and its educational uses?
8. Write a short note on AI for creative writing with examples?

SECTION-B

**Answer ONE question from each Unit. Each question carries equal marks 5\*10=50M**

UNIT-I

9. Explain applications of AI in Industries  
(OR)
10. Write a short note on Machine Learning and its types?

UNIT-II

11. Explain the applications of AI in Healthcare.  
(OR)
12. Explain the applications of AI in Education?

UNIT-III

13. Explain ethics in AI and discuss the key principles such as fairness, transparency, accountability, privacy and human centric design  
(OR)
14. Explain about sustainability in AI. Discuss environmental social and economic of sustainable AI development?

UNIT-IV

15. Explain Generative AI in detail. Describe its working, applications, tools and ethical considerations.  
(OR)
16. Explain large Language Models (LLM). Describe the working principle, features, application, advantages and limitations.

UNIT-V

17. Explain the role of AI in Creative Writing?  
(OR)
18. Explain the importance of prompts in AI interactions. Also write its techniques for effective programming and its role in various fields.