

Reg. No.:



Name:

University of Kerala

U9329

Second Semester FYUGP Degree Examination, April 2025

Multi-Disciplinary course

PHYSICS

UK2MDCPHY101 - Basics of Artificial Intelligence

Academic Level: 100-199

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark
Each.Answer all questions

Qn No.	Question	CL	CO
1	Name the categories based on the capabilities of AI.	RE	1
2	List some examples for narrow AI.	RE	2
3	Describe how VEED can assist educators in video content creation.	UN	4
4	Describe one application of AI in everyday life.	UN	2
5	Outline the key components of a Neural Network	UN	3
6	Outline the major ways AI contributes to solving complex human challenges.	UN	1

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Compare the role of AI in different industries, such as healthcare, cybersecurity, and financial services.	UN	1
8	Explain the significance of deep learning in the advancement of fields such as computer vision and natural language processing.	UN	3
9	Illustrate the capabilities and working of any one AI tools used in education.	AP	4
10	Illustrate the use of machine learning in natural language processing.	AP	2

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) illustrate any 2 applications of AI in medical research OR B) Illustrate the challenges faced in AI development.	AP	2, 2
12	A) Analyze the differences between Reactive AI and Limited Memory AI. OR B) Categorize artificial intelligence based on their functionality	AN	2, 2
13	A) Critique the effectiveness of Plag.ai in ensuring academic integrity. OR B) Evaluate the advantages of polymer tool in analysing data.	EV	4, 4
14	A) Combine any two methods to bring out the usefulness of AI in teaching. OR B) Design the steps to create a visually engaging educational presentation using GAMMA's AI tools.	CR	4, 4