

Continuous Assessment Test (CAT) - 1 - FEB 2024

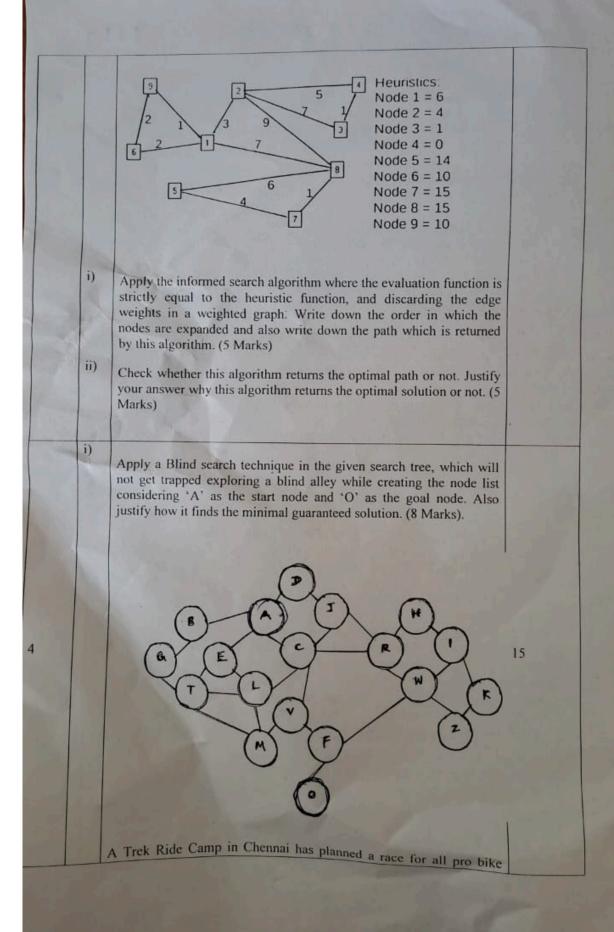
Programme	-	B. Tech (CSE with Specialization)	Semester	*	Winter 23-24
Course Code & Course Title		BCSE306L, Artificial Intelligence	Class Number	10	CH2023240501385, 1391, 1415, 1417, 1419, 1397, 1421, 1400, 1402, 1405, 1407, 2474, 2494
Faculty	:	Dr. Vergin Raja Sarobin M, Dr. Vijayalakshmi, Dr. Vedhapriyavadhana, Dr. Tamilarasi, Dr. Abirami S, Dr. Krithiga R, Dr. Reena Roy, Dr. Vijayaprabakaran, Dr. Christopher Columbus, Dr. Lakshmi Harika, Dr. Poonkodi, Dr. Prem Sankar, Dr. SharmilaDevi	Slot	*	C1 + T4
Duration	:	1½ Hours	Max. Mark		50

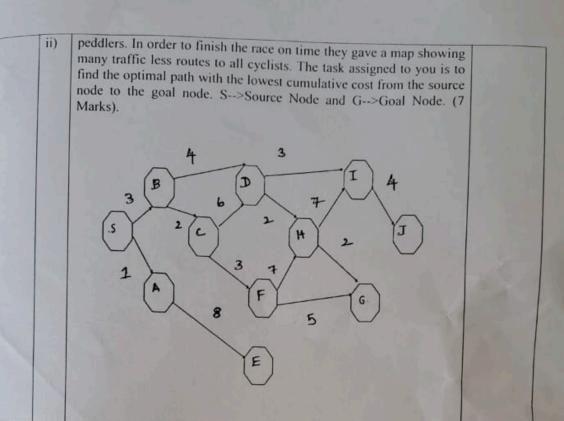
General Instructions: < Use this space to provide additional information such as graph sheet, data book etc.

- Write only your registration number on the question paper in the box provided and do not write other information.
- · Use statistical tables supplied from the exam cell as necessary
- · Use graph sheets supplied from the exam cell as necessary
- · Only non-programmable calculator without storage is permitted

Answer all questions

Q. No	Sub	Description	Marks
1	sec.	List the various disciplines that contributed ideas, viewpoints and techniques for the emergence of Al. With a neat timeline illustration, describe the tremendous improvement in the Al's growth right from the possible mathematical model of biological neuron. (8 Marks) Can we allow a self-governing robot society to co-exist with us? Defend on this. (2 Marks)	
2	i) ii)	Imagine that you have been appointed to the position of Al scientist at the Department of Defence. You are responsible for developing an agent program that will determine the route of a vehicle used to attack enemies during a war. Describe in detail the PEAS description of the given agent. (7 Marks) Suggest a suitable intelligent agent type to develop the above application and justify your answer with a neat diagram. (8 Marks)	15
3		Consider the graph with node #7 is the initial state and node #4 is the goal state.	10





*All the best *********