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B. K. BIRLA CENTRE FOR EDUCATION, PUNE

(SENIOR SECONDARY CO-ED DAY CUM RESIDENTIAL SCHOOL, AFFILIATED TO CBSE NEW DELHI)

MID TERM EXAM (2024-25) ARTIFICIAL INTELLIGENCE



Class : VII Duration : 2 Hours

Max. Marks: 50

General Instructions:

- 1. Please read the instructions carefully.
- 2. This Question Paper consists of 48 questions in three sections: Section A, Section B & Section C
- 3. Section A has Objective type questions (MCQ, Fill in the blanks) whereas Section B contains Short questions & Section C contains long questions.
- 4. All questions of a particular section must be attempted in the correct order as per instructions.
- 5. SECTION A OBJECTIVE TYPE QUESTIONS (24 MARKS):
 - i. This section has 02 types of questions. MCQ & Fill in the blanks.
 - ii. Marks allotted are mentioned against each question/part.
 - iii. There is no negative marking.
 - iv. Do as per the instructions given.

6. SECTION B&C - SUBJECTIVE TYPE QUESTIONS (26 MARKS):

- i. This section has 18 questions.
- ii. A candidate has to do 7 questions from Section B & 4 questions from section C
- iii. Do as per the instructions given.

d. Autonomous underwater vehicle

a. Karel kapec

6. In 1921, the word 'Robot' was first used by.....

b. James Maxwell

iv. Marks allotted are mentioned against each question/part.

Section-A

A. Multiple Choice Question.(Answer any 12 of 15) $12 \times 1 = 12 \text{ Marks}$ 1. What are a type of robot which use treads or caterpillar tracks instead of wheels? a. Legged robot b. Hilly robot c. Tracked robot d. Bio inspired robot 2. An....robot is a system cable of sustained flight with no direct human control and able to perform a specific task. a. Ground robot b. aerial robot c. underwater robot d. Land robot 3. Which of the following robot refers to aerial vehicle that receives remote commands from a pilot or relies of software for autonomous flight. a. Flight b. aerial robot c. drone d. airplane 4.are a type of mobile robot which use articulated limbs, such as leg mechanisms to provide locomotion. a. Legged robot b. Hilly robot c. Tracked robot d. Bio inspired robot 5. Anis a robot that travels underwater without requiring continuous input from an operator. a. Unmanned water vehicle b. Unmanned ground vehicle c. Unmanned underwater vehicle

c. Peter Corke

d. C F Gauss

	7.	Sophia a humanoid robot dubbed the firstis created by Hanson Robotics.					
		a. Robot alien	b. Robot wri	ter c. robo	ot artist	d. Robot citizen	
	8.	Which of the following i	s the first robo	t to use AI?			
		a. Sophia	b. ASIMO	c. Sha	key	d. Vayuputra	
	9.	To be called a robot, a sy	ystem should b	e able to do one	or all of the	e following.	
		a. Move around					
		b. Sense the environme	nt				
		c. Display Intelligent be	ehaviour				
	d. All of the above						
	10. In 1942, the word 'Robotics' was used by the science fiction writer						
		a. Daniel Adams					
		b. Edwin Abott					
		c. Isaac Asimov					
	11	d. Alan Burt Akens11. With what segment of human endeavour is the term "Video Assistance Referring" related?					
	11.	a. Education				law enforcement	
		a. Education	b. Sports	c. Agriculture	u.	iaw emorcement	
	12	Which technology allow	a ua to terr on à	lrassas without s	atually putt	ing them on?	
	12. Which technology allows us to try on dresses without actually putting them on? a. Fashion technology						
		b. Fashion mirror techn	ology				
		c. Dress technology	ology				
		d. Rapid technology					
	13. Which of the following is a humanoid robot that talks, moves and teaches children everything						
	from literacy to computer programming.						
		a. Cram 101	b. Penny	c. Nao	d. Sophia		
	14.	. Which of the following a	app is used to t	urn any textbool	k into a sma	art study guide.	
		a. Cram001	b. Cram002	c. Cram101	d. Cram 1	02	
	15is working on a robotic unit, called DRU, which will deliverfoods and drinks via						
		the best optimized path.					
		a. Amazon	b. Flipkat	c. Bigbasket	d. Domino	OS	
_			12 015			40.4.40.5.	
В.	Fill in the blanks.(Answer any 12 of 15)					$12 \times 1 = 12 \text{ Marks}$	
	16. The standard of habayiour our society accords is called						
	16. The standard of behaviour our society accepts is called17. Deep Fake aregenerated video or audio content with an intent or device.						
	18. An UberSUV struck and killed a female pedestrian in Tempe, Arizona.						
	19. The acronym of "Tay" is						
	20. In June 2005,aat a hospital in Philadelphia malfunctioned during prostate						
	surgery.						
	21is a free PowerPoint plug-in that develops subtitles in real time of what the teacher						
	is saying.						
	22is a robot server created by Bear Robotics that can assist human servers, using						
	sensors to navigate crowded restaurants.						
	23.	23is the full form of "ART"					

24. Full form of 'BARC' is						
25. Farmers inhave mobile –phone based tools to track the images of crops and their infections.						
26. People who are strong inintelligence are able to use words well, both when writing and speaking.						
27. According to Gardner, individuals who are high inintelligence are more in tune with						
nature.						
28. John McCarthy is the father of						
29. Those who have highintelligence are said to be good at body movement, performing actions, and physical control.						
30. Human Intelligence has a high error rate compared to ansystem.						
Section-B						
Short Answer Type Questions.(Answer any 7 of 10) 7 x 2 = 14 Marks						
31. Expand any two the following short forms.						
a. AUV b. ASW c. UUV						
32. Describe the various types of land based robots.						
33. Define Robotics.						
34. Explain the three laws of Robotics.						
35. Give any three examples of AI usages in sports.						
36. Describe the robot Nao, a humanoid robot.						
37. Define Ethics. Why Ethics are important in our life.						
38. Why did the AI Chat bot by Microsoft close down after some hours of operation?						
39. Who is known as the father of AI? What was the definition given by this person?						
40. What do you mean by Turing Test? Explain the term.						
<u>Section-C</u>						
Long Answer Type Questions (Answer any 4 of 8) 4 x 3 = 12 Marks						
41. Define intelligence and explain the various types of intelligence.						
42. Write two advantages and disadvantages of Artificial Intelligence.						
43. Discuss the use of AI in the field of : (a) Transport (b) Literature						
44. A hospital shares the details of the patients with an insurance company. Answer from the Ethical						
as well as Unethical point of view.						
45. Give any three examples of chat bot where chat bot gone wrong.						
46. Write the short notes on the following: (a) Cram101 apps (b) DRU Robots						
47. Describe the various generations of Robots with appropriate example.						

48. Differentiate between manual and autonomous robot.

C.

D.