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INDUSTRY 4.0
ROBOTICS CLUB

Department of Mechanical Engineering
presents

An Online Quiz on

What you know about

Robotics & Artificial Intelligence

Date
1st July, 2024

Quiz Link
https://forms.gle/hGGbRbshVMq6HnkZ9

PRAGATI ENGINEERING COLLEGE

ROBOTICS CLUB

Date: 29-06-2024

CIRCULAR

It is to inform to all the students of B.Tech II, III and IV Year that the college Robotics Club of Department of ME is conducting an Online Quiz on "What you know about Robotics & Artificial Intelligence" on 01-07-2024. Interested students can participate through the link provided below.
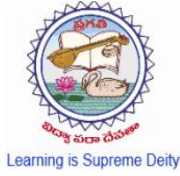
Mode : Online through Google Sheets
Link : https://forms.gle/hGGbRbshVMq6HnkZ9

Faculty Coordinator

Copy to:
1) Circulate among students and staff
2) Department Notice Board
3) Department File
4) Principal for Information

PRAGATI ENGINEERING COLLEGE

(Autonomous)

ADB Road, Surampalem, E.G.Dt., A.P. – 533 437
(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada)
(Recognized by UGC Under Sections 2(f) and 12 (B) of UGC act, 1956)
Ph: 08852 – 252233, 34. Website: www.pragati.ac.in

ROBOTICS CLUB

Date: 02-07-2024

REPORT ON
ROBOTICS CLUB EVENT **ONLINE QUIZ** ON **WHAT YOU KNOW ABOUT ROBOTICS & ARTIFICIAL INTELLIGENCE**

As part of the Industry 4.0 Clubs, the Robotics Club of Pragati Engineering College conducted an Online Quiz on **What you know about Robotics & Artificial Intelligence** on 01-07-2024. A total of 120 students of B.Tech II, III and IV Year have participated in the Quiz.

The quiz aimed to test participants' knowledge on how well they know about Robotics and Artificial Intelligence as in present day scenario both have the major role in Industry 4.0. The quiz was conducted online using google forms where participants allowed to answer a series of multiple-choice questions within a specified time limit. The questions were carefully designed to cover a broad range of topics related to Robotics and Artificial Intelligence and the relation between them. Participants were tested on their understanding of the basic concepts. Questions focused on the significance of Artificial Intelligence aligned with Robotics.

The online quiz was conducted for a duration of 30 minutes. Participants were required to answer 25 multiple-choice questions within the given time frame. Each correct answer was awarded one point, and there was no negative marking for incorrect responses. Students who scored more than 60% is provided with e-certificate.

Faculty Coordinator

S.No	Name of the Student	Roll Number	Branch	Year and Section	Score
1	MUMMIDI ANNAPURNA	22A31A0106	CE	III	25 / 25
2	JAHNAVI LAKSHMI DEVI PRIYA	22A31A0110	CE	III	25 / 25
3	BONAGIRI SRIRAM	22A31A0114	CE	III	25 / 25
4	NAGA VENKATESWARA RAO GANTA	22A31A0116	CE	III	24 / 25
5	RADHA CHAKRADHAR NANDURI	22A31A0125	CE	III	22 / 25
6	PITLA GOPI	22A31A0130	CE	III	25 / 25
7	ABBIREDDY TONI VIBHATH SIVA MANIDEEP	23A35A0110	CE	III	25 / 25
8	BANDARU SATISH	23A35A0111	CE	III	25 / 25
9	DERA MAHESH	23A35A0113	CE	III	7 / 25
10	D.SURYA VENKATA NAGA SAI	23A35A0114	CE	III	25 / 25
11	SHALEM RAJ	23A35A0115	CE	III	25 / 25
12	KALLA KAILASH	23A35A0116	CE	III	25 / 25
13	K.K.V.VENKAT SAI	23A35A0118	CE	III	25 / 25
14	KARANAM VENKATA DURGA RAGHAVENDRA	23A35A0119	CE	III	25 / 25
15	SUNDARAPALLI VEERA DURGA PRAVEEN	23A35A0120	CE	III	25 / 25
16	D.KAVYA SRI	21A31A0302	ME	IV A	25 / 25
17	G NAGAMANIRAMYA	21A31A0303	ME	IV A	25 / 25
18	Y TEJASWI	21A31A0305	ME	IV A	25 / 25
19	MAHESH ADITYA APPANA	21A31A0310	ME	IV A	25 / 25
20	CH.B.SRINIVASU	21A31A0317	ME	IV A	25 / 25
21	KARTHIK	21A31A0329	ME	IV A	20 / 25
22	P. MADHU MANOHAR	21A31A0338	ME	IV A	25 / 25
23	PUNNAM YESU	21A31A0347	ME	IV A	23 / 25
24	BADE VENKATA SHIVA KARTHIK	22A35A0305	ME	IV A	25 / 25
25	THOTA DHANUSH	21A31A0357	ME	IV B	25 / 25
26	K V SUBRAHMANYAM	21A31A0370	ME	IV B	25 / 25
27	BHAVANNARAYANA	21A31A0379	ME	IV B	20 / 25
28	P.ANAND	21A31A0382	ME	IV B	18 / 25
29	R.JOHN WESLY	21A31A0384	ME	IV B	25 / 25
30	SRI VENKATA VASU YARAKA	21A31A0391	ME	IV B	25 / 25
31	PENKE JAGAN MOHAN	22A35A0319	ME	IV B	25 / 25
32	UNDURTHI BHARATH KALYAN	22A35A0327	ME	IV B	22 / 25
33	BAVIRI MANIKANTA	22A31A0305	ME	III A	16 / 25
34	KARANAM KALI KRISHNA	22A31A0320	ME	III A	24 / 25
35	MULAKALA YADIDYA	22A31A0333	ME	III A	23 / 25
36	VANAPALLI JYOTHSNA PRAVEEN	22A31A0345	ME	III A	7 / 25
37	KUKKULURI SIVA KUMAR	23A35A0307	ME	III A	21 / 25
38	NAARI SAI	23A35A0308	ME	III A	16 / 25
39	CH.TARUN	22A31A0355	ME	III B	24 / 25
40	GOLLAPALLI VEERA SATYA SUBRAHMANYA	22A31A0360	ME	III B	25 / 25
41	G RAVI KUMAR	22A31A0361	ME	III B	25 / 25
42	K SIDDHARDHA	22A31A0367	ME	III B	25 / 25
43	K ASHISH VARDHAN	22A31A0369	ME	III B	25 / 25
44	MANEPALLI SAI DURGA VEERA VENKATA AK	22A31A0371	ME	III B	20 / 25
45	M SHANMUKHA SRINIVAS	22A31A0373	ME	III B	25 / 25
46	PANDU GUNA SEKHAR	22A31A0379	ME	III B	25 / 25
47	RAJ KUMAR	22A31A0386	ME	III B	25 / 25

48	YARRAMNEEDI VINAYAKA	22A31A0396	ME	III B	23 / 25
49	RAJESH	23A35A0321	ME	III B	25 / 25
50	AVANTHI	23A31A0302	ME	II	18 / 25
51	REVATHI. MIDATANA	23A31A0305	ME	II	23 / 25
52	S.YOHANNA	23A31A0306	ME	II	20 / 25
53	SAITEJA BEJAWADA	23A31A0313	ME	II	25 / 25
54	K.V. MANIKANTA	23A31A0325	ME	II	11 / 25
55	SADANALA.SIVA SAI	23A31A0345	ME	II	14 / 25
56	AVINASH	23A31A0351	ME	II	5 / 25
57	J.BALANAGAVALLI	22A31A04K4	ECE	III D	25 / 25
58	BALABHARATHI LOKARAPU	22A31A04K7	ECE	III D	25 / 25
59	SAI KEERTHIKA KADIYALA	21A31A1226	IT	IV	19 / 25
60	G.R.L.DEEPIKA	22A31A1209	IT	III	25 / 25
61	N.VASAVI	22A31A1219	IT	III	25 / 25
62	SAMIREDDI ADILAKSHMI	22A31A1223	IT	III	24 / 25
63	UMMANABOYINA TRIVENI	22A31A1226	IT	III	25 / 25
64	UTUKURI NAVEEN SATYA SAI	22A31A1263	IT	III	16 / 25
65	M PAVITHRA	23A35A1202	IT	III	25 / 25
66	MALLAVARAPU SIRI SATHVIKA	21A31A4216	CSE-AIML	IV A	25 / 25
67	RAM SUBHASH GODAVARTHI	21A31A4232	CSE-AIML	IV A	21 / 25
68	KATAKAM CHARAN PRAVEEN KUMAR	21A31A4236	CSE-AIML	IV A	19 / 25
69	VINSY MOYYA	21A31A4289	CSE-AIML	IV B	25 / 25
70	SANGANA PRIYA	21A31A4295	CSE-AIML	IV B	25 / 25
71	SUSHMA CHINTA	22A31A4204	CSE-AIML	III A	25 / 25
72	DIVYA	22A31A4218	CSE-AIML	III A	25 / 25
73	BANDARU B S VEERA SAI GANESH	22A31A4226	CSE-AIML	III A	25 / 25
74	CHENNOJU SREEKANTH	22A31A4230	CSE-AIML	III A	25 / 25
75	MARRE NARENDAR KARTHIKEYA	22A31A4246	CSE-AIML	III A	25 / 25
76	SRINU PITTA	23A35A4209	CSE-AIML	III A	25 / 25
77	BAYYAVARAPU SRIRAMYA	22A31A4267	CSE-AIML	III B	25 / 25
78	DEGALA VEERA KUSUMANJALI	22A31A4269	CSE-AIML	III B	11 / 25
79	GADUPUDI MOKSHAGNA	22A31A4270	CSE-AIML	III B	25 / 25
80	G CHINMAYEE SAHITHYA	22A31A4274	CSE-AIML	III B	25 / 25
81	MEKA YESASRIMANI	22A31A4280	CSE-AIML	III B	23 / 25
82	SATYA NAGA VAISHNAVI DEVI PABBINEEDI	22A31A4282	CSE-AIML	III B	25 / 25
83	SAMIKSHA YADAV	22A31A4286	CSE-AIML	III B	25 / 25
84	V. TEJASRI	22A31A4292	CSE-AIML	III B	25 / 25
85	V.SUKEERTHANA	22A31A4293	CSE-AIML	III B	25 / 25
86	B V L SAI DINESH	22A31A4297	CSE-AIML	III B	25 / 25
87	K.BHARATH KUMAR VARMA	22A31A42A4	CSE-AIML	III B	25 / 25
88	KOPPADA PRUDHVI VINAYAK	22A31A42A6	CSE-AIML	III B	25 / 25
89	NADIGATLA ROOPCHAND	22A31A42B8	CSE-AIML	III B	25 / 25
90	PALLETI CHARAN TEJA	22A31A42B9	CSE-AIML	III B	23 / 25
91	PENKE SREERAMKASULU	22A31A42C0	CSE-AIML	III B	25 / 25
92	SHAIK MOHAMMED IMRAN	22A31A42C3	CSE-AIML	III B	25 / 25
93	SHAIK TOWSIQ	22A31A42C4	CSE-AIML	III B	25 / 25
94	HEMANTH SAI	22A31A42C6	CSE-AIML	III B	25 / 25
95	KELANGI VEERA AKHILA	22A31A42D7	CSE-AIML	III C	25 / 25
96	B LAKSHMI NARASIMHA	22A31A42F4	CSE-AIML	III C	20 / 25

97	PRADEEP	22A31A42G0	CSE-AIML	III C	21 / 25
98	ROOPESH JONNAKUTI	22A31A42G3	CSE-AIML	III C	24 / 25
99	B.MATHRUSRI	23A31A42D5	CSE-AIML	II C	23 / 25
100	CHAKRAVARTHULA SRI SAI VARSHA	23A31A42D6	CSE-AIML	II C	23 / 25
101	CH.Y.RAMYA SRI	23A31A42D7	CSE-AIML	II C	15 / 25
102	ANJANI SURYA PRABHA KATTA	23A31A42E2	CSE-AIML	II C	21 / 25
103	MANASA KONDEPUDI	23A31A42E4	CSE-AIML	II C	25 / 25
104	REDDY.KUSUMA	23A31A42F4	CSE-AIML	II C	25 / 25
105	M SINDHU	23A31A42F5	CSE-AIML	II C	12 / 25
106	KOUMUDI	23A31A42F8	CSE-AIML	II C	24 / 25
107	CHARISHMA SAI SRI	23A31A42F9	CSE-AIML	II C	25 / 25
108	M. SRI RAM SAI ESWAR	23A31A42H9	CSE-AIML	II C	25 / 25
109	NADIMPILLI V POORNA CHANDRA VARMA RA	23A31A42I2	CSE-AIML	II C	25 / 25
110	PENTAKOTA SRIRAM	23A31A42I4	CSE-AIML	II C	23 / 25
111	PENUMALLA SURESH NAYUDU	23A31A42I5	CSE-AIML	II C	16 / 25
112	SISHTA SIVA CHARAN SRI LAKSHMI NARAYA	23A31A42I8	CSE-AIML	II C	25 / 25
113	T SYAM KUMAR	23A31A42J0	CSE-AIML	II C	25 / 25
114	BEJJIPURAM JAHNAVI	22A31A4466	CSE-DS	III B	23 / 25
115	M.VINEETHA	22A31A4472	CSE-DS	III B	25 / 25
116	M. SOWMYA	22A31A4474	CSE-DS	III B	25 / 25
117	POLINA SAI SATVIKA	22A31A4477	CSE-DS	III B	25 / 25
118	G. V. SATYA SRI	23A31A0106	CE	II	12 / 25
119	Y.CHANDINI	23A31A0122	CE	II	24 / 25
120	D.SAI DHEERAJ	23A31A0127	CE	II	19 / 25

An Online Quiz on Robotics & Artificial Intelligence

The Robotics Club of Pragati Engineering College conducting an Online Quiz on **What you know about ROBOTICS & ARTIFICIAL INTELLIGENCE** on 01-07-2024 for the students of II, III and IV Year.

1. Email *

2. NAME OF THE STUDENT *

3. ROLL NUMBER *

4. BRANCH *   ⊙ Dropdown

   Mark only one oval.

   ⚪ CE

   ⚪ EEE

   ⚪ ME

   ⚪ ECE

   ⚪ CSE

   ⚪ IT

   ⚪ CSE-AIML

   ⚪ CSE-AI

   ⚪ CSE-DS

   ⚪ CSE-CS

5. Year and Section *

Mark only one oval.

- ( ) IV A
- ( ) IV B
- ( ) IV C
- ( ) IV D
- ( ) IV E
- ( ) III A
- ( ) III B
- ( ) III C
- ( ) III D
- ( ) III E
- ( ) II A
- ( ) II B
- ( ) II C
- ( ) II D
- ( ) II E
- ( ) IV
- ( ) III
- ( ) II

6. What is the main function of sensors in a robot? * 1 point

Mark only one oval.

- ( ) a) To process data
- ( ) b) To perceive the environment
- ( ) c) To move the robot
- ( ) d) To store information

7. Which of the following is a common programming language used in robotics? * 1 point

Mark only one oval.

- ⬭ a) HTML
- ⬭ b) Python
- ⬭ c) CSS
- ⬭ d) PHP

8. What is the purpose of machine learning in AI? *   1 point

Mark only one oval.

- ⬭ a) To manually code all behaviors
- ⬭ b) To allow machines to learn from data and improve over time
- ⬭ c) To control hardware components
- ⬭ d) To maintain databases

9. Which of these is NOT an example of an AI application? *   1 point

Mark only one oval.

- ⬭ a) Chatbot
- ⬭ b) Online shopping recommendation system
- ⬭ c) Digital clock
- ⬭ d) Facial recognition system

10. What does the term 'autonomous' mean in robotics? *   1 point

Mark only one oval.

- ⬭ a) Controlled by a human
- ⬭ b) Operating independently without human intervention
- ⬭ c) Always needing supervision
- ⬭ d) Only moving in straight lines

11. Which of the following is an AI-powered personal assistant? * 1 point

Mark only one oval.

○ a) Roomba

○ b) Siri

○ c) Blender

○ d) Smart TV

12. What is the Turing Test designed to evaluate? * 1 point

Mark only one oval.

○ a) A machine's ability to exhibit human-like intelligence

○ b) A robot's physical strength

○ c) The speed of a computer

○ d) The efficiency of a program

13. Which component is crucial for a robot's movement? * 1 point

Mark only one oval.

○ a) Sensor

○ b) Memory

○ c) Actuator

○ d) Monitor

14. What is computer vision? * 1 point

Mark only one oval.

○ a) A type of monitor

○ b) The ability of a computer to interpret and understand visual information

○ c) A method of optimizing code

○ d) A type of data storage

15. Which of these is a characteristic of deep learning? * 1 point

Mark only one oval.

○ a) Shallow neural networks

○ b) Use of hierarchical data processing

○ c) Reliance on simple algorithms

○ d) Lack of data requirements

16. Which of the following is NOT a type of robot? * 1 point

Mark only one oval.

○ a) Industrial robot

○ b) Service robot

○ c) Biochemical robot

○ d) Humanoid robot

17. What is an algorithm in the context of AI? * 1 point

Mark only one oval.

○ a) A physical component of a robot

○ b) A storage device

○ c) A type of programming language

○ d) A set of rules or instructions given to an AI system to help it learn and make decisions

18. Which industry has extensively adopted robotic process automation   * 1 point
    (RPA)?

    Mark only one oval.

    ( ) a) Agriculture

    ( ) b) Healthcare

    ( ) c) Banking and finance

    ( ) d) Art and design

19. What is reinforcement learning?   *   1 point

    Mark only one oval.

    ( ) a) A method of encoding data

    ( ) b) A type of machine learning where an agent learns to make decisions by
    receiving rewards or penalties

    ( ) c) A hardware improvement technique

    ( ) d) A new programming language

20. Which of the following is an example of a humanoid robot?   *   1 point

    Mark only one oval.

    ( ) a) Pepper by SoftBank Robotics

    ( ) b) Assembly line robot

    ( ) c) Autonomous vacuum cleaner

    ( ) d) 3D printer

21. What is natural language processing (NLP)? *   1 point

Mark only one oval.

- a) A way to process numerical data
- b) The ability of machines to understand and respond to human language
- c) A method of physical training for robots
- d) A technique to increase internet speed

22. Which of the following best describes a neural network? *   1 point

Mark only one oval.

- a) A network of physical wires
- b) A series of algorithms that attempt to recognize underlying relationships in data through a process that mimics the way the human brain operates
- c) A method of data encryption
- d) A storage network

23. What is the primary role of actuators in robotics? *   1 point

Mark only one oval.

- a) To think and make decisions
- b) To store information
- c) To move and control a mechanism or system
- d) To capture images

24. Which term refers to AI systems that can perform tasks without human input after initial setup? * 1 point

Mark only one oval.

○ a) Reactive AI

○ b) Semi-autonomous AI

○ c) Manual AI

○ d) Autonomous AI

25. What does the term 'big data' refer to in the context of AI? * 1 point

Mark only one oval.

○ a) Large physical storage devices

○ b) Extremely large data sets that can be analyzed to reveal patterns and trends

○ c) Data that is small but complex

○ d) Only textual data

26. Which of these is a popular framework for developing AI models? * 1 point

Mark only one oval.

○ a) TensorFlow

○ b) Excel

○ c) Windows

○ d) Apache

27. In robotics, what is an 'end effector'? * 1 point

Mark only one oval.

- ○ a) The part of the robot that interacts with the environment, such as a gripper or tool
- ○ b) The robot's power supply
- ○ c) The robot's central processing unit
- ○ d) The robot's sensor array

28. What is the goal of computer vision in AI? * 1 point

Mark only one oval.

- ○ a) To create virtual reality environments
- ○ b) To enable computers to interpret and make decisions based on visual data
- ○ c) To improve screen resolutions
- ○ d) To enhance sound quality

29. Which of these is NOT a common use of AI in healthcare? * 1 point

Mark only one oval.

- ○ a) Medical imaging analysis
- ○ b) Predictive diagnostics
- ○ c) Autonomous surgical robots
- ○ d) Growing new organs

30. What is a 'chatbot' designed to do? * 1 point

Mark only one oval.

- ○ a) Perform physical tasks
- ○ b) Simulate conversation with human users, especially over the internet
- ○ c) Manage databases
- ○ d) Process financial transactions

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Certificate of Participation

This is to certify that BEJJIPURAM JAHNAVI of III B studying CSE-DS has successfully participated in the Online Quiz conducted by **ROBOTICS CLUB** on **"What you know about Robotics & Artificial Intelligence"** organized by **Department of Mechanical Engineering, Pragati Engineering College (Autonomous),** conducted on 1st July, 2024 and secured a score of 92%.

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Certificate of Participation

*This is to certify that SAI KEERTHIKA KADIYALA of IV A studying IT has successfully participated in the Online Quiz conducted by **ROBOTICS CLUB** on **"What you know about Robotics & Artificial Intelligence"** organized by **Department of Mechanical Engineering, Pragati Engineering College (Autonomous),** conducted on 1st July, 2024 and secured a score of 80%.*

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This is to certify that K V SUBRAHMANYAM of IV B studying ME has successfully participated in the Online Quiz conducted by **ROBOTICS CLUB** *on* **"What you know about Robotics & Artificial Intelligence"** *organized by* **Department of Mechanical Engineering, Pragati Engineering College (Autonomous),** *conducted on 1st July, 2024 and secured a score of 100%.*

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This is to certify that BONAGIRI SRIRAM of III A studying CE has successfully participated in the Online Quiz conducted by **ROBOTICS CLUB** *on* **"What you know about Robotics & Artificial Intelligence"** *organized by* **Department of Mechanical Engineering, Pragati Engineering College (Autonomous),** *conducted on 1st July, 2024 and secured a score of 100%.*

Pragati Engineering College

(Autonomous)

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This is to certify that CH.Y.RAMYA SRI of II C studying CSE-AIML has successfully participated in the Online Quiz conducted by **ROBOTICS CLUB** *on* **"What you know about Robotics & Artificial Intelligence"** *organized by* **Department of Mechanical Engineering, Pragati Engineering College (Autonomous),** *conducted on 1st July, 2024 and secured a score of 60%.*