



B. K. BIRLA CENTRE FOR EDUCATION, PUNE

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

PRE MID TERM EXAM (2024-25)

ARTIFICIAL INTELLIGENCE



Class : VII

Date : 1-8-2024

MARKING SCHEME

Duration : 1 hour

Max. Marks : 25

A. Multiple Choice Questions.(Answer any 8 of 10)

8 x 1 = 8 Marks

- Dominos is working on a robot unit, called.....,which will deliver foods via the best optimized path.
a. DominosRobo **b. DRU** c. DRobo d. DroboUnit
- What does the A in the robot name ARTIE stand for?
a. Affectionate b. affliction c. Advanced **d. Affective**
-is an app where any textbook can be turned into a smart study guide.
a. Cram101 b. Cram001 c. Ram101 d. Cram102
- With what segment of human endeavor is the term "Video Assistant Refereeing" related?
a. Education b. law enforcement c. agriculture **d. Sports**
-is a humanoid robot that talks, moves and teaches children everything from literacy to computer programming.
a. Penny **b. Nao** c. Sophia d. Cram101
- The first reported pedestrian death account by an autonomous vehicle happened in which year?
a. 2016 b. 2017 c. 2018 d. 2019
-is based on well-founded standards of right and wrong that prescribe what humans ought to do ,usually in terms of rights,obligations,benefits to society,fairness,or specific virtues.
a. Morals **b. Ethics** c. Rights d. Virtues
- What is meant by "AI bias"?
a. The tendency of Ai systems to favor certain groups or individuals over others.
b. The fact that AI systems are often not programmed with human values
c. The difficulty of ensuring that AI systems are fair and impartial.
d. All of the above
- What is the main concerns about the ethics of AI?
a. That AI systems are becoming too powerful and may pose a threat to humanity
b. That AI systems may be biased and unfair
c. That AI systems may lead to job losses and economic inequality
d. All of the above
-is Ai generated video or audio content with an intent to deceive.
a. Google meet b. zoom c. Meet Fake **d. Deep Fake**

B. Fill in the blanks.

4 x 1 = 4 Marks

1. Tay is an artificial intelligence chatter bot and is named “Tay” after the acronym...**Thinking About You.**
2. An Uber self-driving car SUV struck and killed a ...**female pedestrian**....in Tempe,Arizona.
3. In June 2005,a ...**surgical Robot**....at a hospital in Philadelphia malfunctioned during prostate surgery.
4. ...**Ethics**....consists of the standard of our society accepts.

C. Short Answer Questions.

4 x 2 = 8 Marks

1. A hospital shares the details of the patients with an insurance company. Do you think it is ethical? Why/Why Not?

Ans- The ethicality of a hospital sharing patient details with an insurance company depends on various factors, including consent, the purpose of the data sharing, and the measures taken to protect patient privacy.

Ethical: If the information is shared for legitimate purposes, such as processing insurance claims, ensuring appropriate billing, or improving healthcare services, it can be considered ethical.

Unethical: If the data is shared for purposes not directly related to patient care or insurance claims, such as marketing or third-party profit, it is unethical.

2. Define Ethics and its importance.

Ans- Ethics in AI refers to the moral principles and guidelines that govern the development, deployment, and use of artificial intelligence (AI) technologies.

As AI systems become more integrated into various aspects of society, ensuring their ethical use is critical to avoid harm and maximize benefits.

Key Ethical Considerations in AI:

- i. Fairness and Non-Discrimination
 - ii. Privacy and Data Protection:
3. Describe the robot Nao, a humanoid robot.

Ans- Nao-is a humanoid robot that talks, moves and teaches children everything from literacy to computer programming.

4. How is Dominos using AI in retail through its DRU?

Ans- DRU- Dominos is working on a Robot unit called DRU(Dominos Robot Unit)- which will deliver foods and drinks via the best optimised path. It will deliver the Pizza right at your door.

D. Long Answer Questions.(Answer any 2 of 4)

2 x 2.5 = 5 Marks

1. Explain the future of AI in Entertainment.

Ans-Scriptwriting and Storytelling

Music Composition

Visual Effects and Animation

Game Development

Content Recommendations

Virtual Reality (VR) and Augmented (Amplified) Reality (AR):

Voice and Gesture Recognition

2. What is the future of Ai in Education?

Ans-The future of AI in education is expected to transform teaching and learning, making education more personalized, efficient, and accessible.

Adaptive Learning Systems:

Intelligent Tutoring Systems

3. Why did Ai chat bot by Microsoft close down after some hours of operations?

Ans-The AI chatbot by Microsoft, named Tay, was shut down after only a few hours of operation due to it quickly learning and repeating inappropriate and offensive content.

Tay was designed to engage in conversation with users on Twitter and learn from those interactions.

some users exploited Tay's machine learning algorithms by sending it offensive and harmful messages.

This is why,Microsoft decided to close down AI chat bot after some hours

4. Your younger sibling has spent a lot of time in preparing a 3D model of India gate which is 3 ft tall and kept it on ground for safety concerns. Your mother started the autonomous robot to clean the floor and it tries to clean the area near the model but it fails and breaks.

(a) Who can be held liable for damages caused by autonomous system?

Ans- In this case, mother, who started the robot, might be held liable if she did not follow proper usage instructions or failed to take necessary precautions to avoid such accidents.

For example, if the robot's manual specifies that it should not be used around fragile objects and this warning was ignored, the operator may be at fault.

(b) List two AI Ethics.

Ans- Fairness and Non-Discrimination:

AI systems should be fair and unbiased.
