ANNUAL EXAMINATION

Question Paper 2024

NCERT BASED SYLLABUS

FOR CBSE AND STATE BOARD
FOLLOWING NCERT

Annual Exam Question Paper 2024

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SESSION ENDING EXAMINATION (2023-24)

CLASS – VII

SUBJECT – ARTIFICIAL INTELLIGENCE

TIME: 1.5 Hour **MAXIMUM MARKS: 40**

Q1.Select the correct answer: **(8*1=8)**

1. Product recommendations during online shopping are based on which of the following?
   a. Our bank balance
   b. Our profile picture
   c. Our hobbies
   d. Our buying habits

2. Blocking a bank account is a response to which of the following?
   a. Zero balance in bank account
   b. Fraudulent transaction
   c. Payments of credit card defaulted
   d. No login in account for long time

3. Identifying face by its features is an example of which of the following?
   a. Biometrics
   b. Predictive Search
   c. Digital fingerprinting
   d. Classification

4. What is the range of intensity of basic colors in RGB model?
   a. 0-285
   b. 0-275
   c. 0-265
   d. 0-255

5. In the color model CMYK, what does K stand for?
   a. Grey
   b. Blue
   c. Black
   d. Red

6. Computers understand type of data in the form of which of the following?
   a. Text
   b. Numbers
   c. RGB
   d. Pixel

7. Which of the following is not an application of Computer Vision?
   a. Image identification
   b. Object Detection
   c. Identifying voice of the user
   d. Autonomous Vehicle

8. AI applications look for which of the following in an image?
   a. Color
   b. Intensity
   c. Both a) and b)
   d. None of these

Q2. Match the following: **(5*1 = 5)**

A	
1. Predictive Search	a. Identify a face in a video clip.
2. Fraud Detection	b. Our buying habits and preferences.
3. Product Recommendation	c. Words recommended based on the previous searches
4. Sentiment Analysis	d. Transfer a huge amount from one account to other
5. Object Detection	e. Our online interactions about a product or service

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Q3. Categorize the following into 3 domains of AI: **(4)**

A	B	C
1. Facial features	2. Students' Photograph	3. Recorded Voice
4. Fingerprint	5. Product image	6. Text typed into the computer
7. Voice command	8. Student's Mark sheet	9. Document classification
10. Document scan	11. Customer Feedback	12. Detecting traffic light

DATA	CV	NLP
_____	_____	_____
_____	_____	_____
_____	_____	_____

Q4. State whether True (T) or False (F): **(4*1=4)**

1. The human brain can process any volume and complex type of data. ( )
2. Maximum intensities of basic colors generate white color. ( )
3. Data is one of the main domains of AI. ( )
4. Voice recognition means what has been spoken. ( )

Q5. Fill in the blanks: **(5*1=5)**

1. Customers can find out about services and products of a company by using its_____.
2. _____can understand speech and execute routine tasks.
3. An auto-driven car is programmed to process _____visual data it receives from its sensors
4. The _____are stored in digital camera in Numeric form.
5. Computers can easily process_____.

Q6. Very Short answer type question: **(4*2=8)**

1. What do you mean by Computer Vision?
2. What do you mean by the term Syntax of a language? Give one small example.
3. How is Speech Recognition different from Voice Recognition?
4. What do you mean by Sentiment Analysis?

Q7. Long answer type question: **(2*3 = 6)**

1. Discuss very briefly any 3 examples of data in the form of text, visual and Natural Language.
2. Mention ways through which AI algorithm detects online fraudulent transactions.

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