ANNUAL EXAMINATION

Question Paper 2024

NCERT BASED SYLLABUS

FOR CBSE AND STATE BOARD
FOLLOWING NCERT

Annual Exam Question Paper 2024

SESSION ENDING EXAMINATION (2023-24)

CLASS – VIII

SUBJECT – ARTIFICIAL INTELLIGENCE

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

Q1. Fill in the blanks: **(4*1=4)**

1. Spatial data is usually provided by _____.
2. Pixel (0, 255, 0) and (0, 0, 255) will give together _____color.
3. Pixel (100, 100, 100) will give _____color.
4. AI based microprocessor are _____ computing.

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

A	B
1. Adaptive Learning and Smart Teaching	a. Media/ Entertainment
2. AI enabled IVRS	b. E-commerce
3. Developing better game strategy	c. Customer support
4. Comparing items purchased by user	d. Sports
5. Automatic multilingual subtitles	e. Education

Q3.Select the correct answer: **(6*1=6)**

1. In RGB color model, 100, 0, 0 will give which color?
   a. Yellow b. Magenta
   c. Cyan d. Red

2. If a rectangle is displayed on computer screen in green color, then what will be its RGB value?
   a. 255, 255, 255 b. 0, 0, 0
   c. 0, 255, 0 d. 255, 0, 255

3. Colored digital images are composed of how many channels?
   a. 1 b. 3
   c. 255 d. 4

4. How many edges does a corner in an image have?
   a. 2 b. 0
   c. 1 d. 3

5. An AIO system trying to recognize a snapshot of a handwritten note. This integrates which of the following domains of AI?
   a. Data b. Computer Vision
   c. NLP d. All of these

6. _____the bulk of data, more accurate is the predictions by AI.
   a. Organized b. Lower
   c. Higher d. Structured

Q4. Full Forms: **(4*1 = 4)**

1. IVRS 2. ANN 3. KB 4. IE

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Q5. State whether True (T) or False (F): **(3*1=3)**

1. In a pixel, O intensity means absence of that color (black).
2. Cancer cell detection is easier using Computer Vision techniques.
3. With as little data as possible, an Al system works better.

Q6. Short answer type question: **(3*2=6)**

1. What do you mean by the term Edge and Corner with reference to an image?
2. How is color model RGB different from CMYK?
3. List main capabilities of AI. Draw Diagram.

Q7. Long answer type question: **(3*3 = 9)**

1. Explain how RGB model generates black and white color?
2. List 3 major challenges in ensuring desired data quality for an AL system.
3. What do you mean by Expert System? Also explain KB and IE.

Q8. Read the passage below:

A search engine is a software system that helps users find information on the internet. It works by searching for relevant information based on the user's query and presenting the results in a list. Search engines use algorithms to rank the results based on various factors such as relevance, popularity, and credibility. Examples of popular search engines include Google, Bing, and Yahoo. A Chatbot is a computer program designed to simulate conversation with human users, especially over the internet. Chatbots can be used for a variety of purposes, such as customer service, information retrieval, and entertainment. They work by analyzing the user's input and generating a response based on pre-defined rules or machine learning algorithms. Some popular Chatbots are Chatgpt by Open AI, Copilot by Microsoft and Bard (now Gemini) by Google. Web browsers are software applications used to access information on the World Wide Web. They allow users to view web pages, navigate between them, and interact with the content. Examples of web browsers include Google Chrome, Mozilla Firefox, and Microsoft Edge. A virtual assistant is a software agent that can perform tasks or services for an individual. They are typically used to provide information, answer questions, and control other software applications. Examples of virtual assistants include Apple's Siri, Amazon's Alexa, and Microsoft's Cortana.

Based on your understanding of the passage, answer the questions given below:

1. What do you understand by a Web Browser? Give Examples. **(1)**
2. Complete the following table: **(2)**

	By GOOGLE	By MICROSOFT
1. Search Engine		Bing
2. Chatbot	Gemini	
3. Web Browser		Edge
4. Virtual Assistant	Google Assistant	

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