B. K. BIRLA CENTRE FOR EDUCATION, PUNE

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

PRE MID TERM (2024-25)
ARTIFICIAL INTELLIGENCE

Class : VIII	**Duration : 1 hour**
Date : 05-08-2024	**Max. Marks : 25**

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I. Multiple Choice Questions :   **(12 X 1 = 12)**

(1) What is your data footprint ?
    (a) the data trail left by you when you surf the internet
    (b) The time you spend on your computer
    (c) the number of electronics you buy in a year
    (d) the number of apps you have on your mobile

(2) What is the primary goal of data privacy ?
    (a) to protect personal data from unauthorized access,, use, disclosure, alteration or destruction
    (b) to ensure that personal data is collected, processed and used in a fair and lawful manner
    (c) to empower individuals with control over their personal data
    (d) all of the above

(3) What is the purpose of transforming data into information ?
    (a) to make the data easier to store
    (b) to make the data easier to analyze
    (c) to give the data meaning and context
    (d) to make the data more valueable

(4) Which of the following is an example of quantitative data ?
    (a) the colour of a product
    (b) the size of a customer's business
    (c) the number of items sold in a day
    (d) the customer's opinion of a product

(5) What is data privacy ?
    (a) the protection of personal information from unauthorised access are use
    (b) the sharing of personal information with others
    (c) the collection of personal information for marketing purposes
    (d) the sale of personal information to third parties

(6) Which of the following is a way to protect your data privacy ?
    (a) using strong passwords
    (b) only sharing personal information with trusted sources
    (c) using a virtual private network (VPN)
    (d) all of the above

(7) ………………is a field of computer science that works on enabling computers to see, identify and process images in the same way that human vision does, and then provide appropriate output
    (a) artificial vision
    (b) computer vision
    (c) computer sight
    (d) computer glimpse

(8) ……………… are images that contain text you have to type in before you can access a website.
    (a) CAPTCHAS
    (b) PNG
    (c) JPG
    (d) TIFF

(9) There is no……………… in a self driven car.
- (a) human
- (b) engine
- (c) Steering wheel
- (d) fuel

(10) A mega pixel means………………pixels.
- (a) 1 million
- (b) 2 million
- (c) one thousand
- (d) one hundred

(11) ………………is an Image recognition technology developed by Google, designed to bring up relevant information related to objects which identifies using visual analysis based on a neural network.
- (a) inner eye
- (b) Google lens
- (c) captchas
- (d) pixelit

(12) Which of the following is an application of computer vision ?
- (a) robotics
- (b) medicine
- (c) security
- (d) all of these

II. Short Answer Type Questions : (Answer any four)   (4 X 2 = 8)

(1) Explain the difference between data and information ?

(2) Give any two examples of how data impacts our daily lives.

(3) How do online streaming platforms use data ? Explain.

(4) Differentiate between Pixel and Resolution.

(5) Explain the importance of images in Artificial Intelligence.

(6) Write any two ways in which the functionality of Radiologists can be augmented using computer vision.

III. Long Answer Type Questions : (Answer any two)   (2 X 2.5 = 5)

(1) What are data footprints ? Why should you keep a data recovery plan ? Explain.

(2) What are the main causes of data loss, and what steps can individual and organizations take to prevent data loss incidents ?

(3) Explain any three areas where Computer Vision is being used.

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