

**HALF YEARLY EXAMINATION, 2024-25**  
**COMPUTER STUDIES (ARTIFICIAL INTELIGENCE & CODING)**

**Time – 2:00 Hr.**

**Class –VIII**

**M.M. : 30**

**Date – 04.09.2024 (Wednesday)**

**Name of the student** \_\_\_\_\_ **Section** \_\_\_\_\_

**Instructions:** All questions of a particular section must be attempted in the correct order.

**Q1. Choose the correct option:** **5\*1=5**

- (a) Which is the most commonly used network card?  
(i) Ethernet Network Card      (ii) Wi-Fi      (iii) Bluetooth      (iv) Hub
- (b) Query window is divided into \_\_\_\_\_ parts.  
(i) One      (ii) Two      (iii) Three      (iv) Four
- (c) Which of the following is not a valid data type?  
(i) Memo      (ii) Text      (iii) Date/Time      (iv) Metro
- (d) An iterative statement is also known as a \_\_\_\_\_ statement.  
(i) Looping      (ii) Conditional      (iii) Selection      (iv) None of these
- (e) \_\_\_\_\_ connects wireless communication devices to form a wireless network.  
(i) WAN      (ii) Wi-Fi      (iii) WAP      (iv) MAN

**Q2. Fill in the blanks:** **5\*1=5**

- (a) The length of the text field can have a maximum of \_\_\_\_\_ character.
- (b) A \_\_\_\_\_ is a collection of data elements organized in terms of rows and columns.
- (c) The range ( ) function produces a list of a \_\_\_\_\_.
- (d) Press \_\_\_\_\_ key to run a query in Access.
- (e) \_\_\_\_\_ is a collection of data that is huge in volume.

**Q3. Application based questions:** **5\*1=5**

- (a) ABC Pvt. Ltd needs to network together a few computers of similar power. Which type of network architecture is the most suitable for this purpose?
- (b) A school has set up 30 computers. The management wants to connect them and all the peripheral devices within the school building with wires. Which type of network should they use?
- (c) Raman is writing a code in Python programming. He needs to use a function that increments the value by 1 (by default). Identify the name of the function.

- (d) There is a column in a database table that uniquely identifies each record in that table. No two records can have the same value and it cannot contain NULL values. What is the name of the unique identifier?
- (e) Udit has clicked some photographs during his school trip. He wants to send a few of them to his friends by interconnecting mobile phones, using short-range wireless connection. Which technology would be most suitable for him?

**Q4. Short answer type questions.(any 5)**

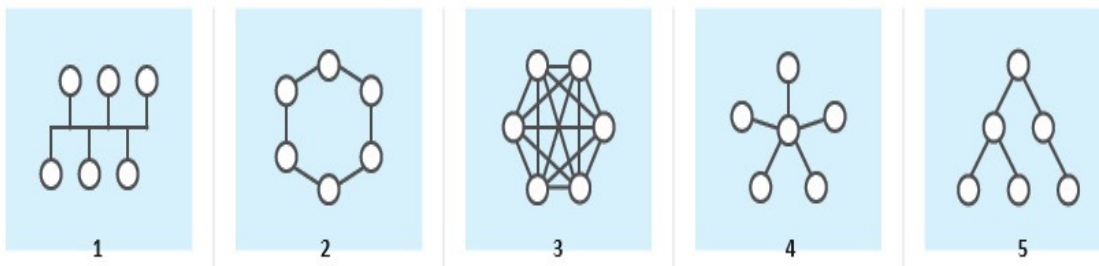
**5\*2=10**

- (a) Mentions any two advantages of Data Science?
- (b) Is it possible to create an infinite loop? If yes, write a code to show infinite loop in python.
- (c) Define Networking and also state its two advantages.
- (d) What are the components required for wireless networking?
- (e) Define data types. Name any two data types available in Access.
- (f) Write down two common career paths for data science.
- (g) Differentiate between *for* and *while* loop.

**Q5. Diagram based question.**

**5**

Write down the name of the following topologies:



**Practical Assignment : 20 Marks**

