

| Version No. | | | |
|-------------|--|--|--|
| | | | |

| ROLL NUMBER | | | | | | |
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| | | | |
|---|---|---|---|
| 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Answer Sheet No. _____

Sign. of Candidate _____

Sign. of Invigilator _____

Internet of Things Software Development SSC–II
SECTION – A (Marks 06)
Time allowed: 10 Minutes

Section – A is compulsory. All parts of this section are to be answered on this page and handed over to the Centre Superintendent. Deleting/overwriting is not allowed. **Do not use lead pencil.**

Q.1 Fill the relevant bubble for each part. All parts carry one mark.

- (1) CoAP is _____ layer protocol.

| | | | |
|----------------|-----------------------|--------------|-----------------------|
| A. Application | <input type="radio"/> | B. Transport | <input type="radio"/> |
| C. Network | <input type="radio"/> | D. Link | <input type="radio"/> |

- (2) Which of the following is NOT a SQL query?

| | | | |
|-----------|-----------------------|---------------|-----------------------|
| A. Update | <input type="radio"/> | B. Insert | <input type="radio"/> |
| C. Delete | <input type="radio"/> | D. Manipulate | <input type="radio"/> |

- (3) The cloud" refers to _____ that are accessed over the Internet.

| | | | |
|----------------|-----------------------|------------|-----------------------|
| A. Servers | <input type="radio"/> | B. Website | <input type="radio"/> |
| C. Application | <input type="radio"/> | D. 7 | <input type="radio"/> |

- (4) _____ calculates the distance of a new data point to all other training data points.

| | | | |
|--------|-----------------------|----------------------|-----------------------|
| A. KNN | <input type="radio"/> | B. Association Rules | <input type="radio"/> |
| C. SVM | <input type="radio"/> | D. Decision Tree | <input type="radio"/> |

- (5) _____ are a series of internet-connected devices that are created to steal data, compromise networks, or send spam.

| | | | |
|---------------|-----------------------|----------------|-----------------------|
| A. Botnets | <input type="radio"/> | B. Intruders | <input type="radio"/> |
| C. Wardrivers | <input type="radio"/> | D. Warshippers | <input type="radio"/> |

- (6) _____ is the ability to work cooperatively with others to achieve group objectives.

| | | | |
|-------------|-----------------------|-------------------------|-----------------------|
| A. Teamwork | <input type="radio"/> | B. Talent | <input type="radio"/> |
| C. Hardwork | <input type="radio"/> | D. Working individually | <input type="radio"/> |



Federal Board SSC-II Examination
Internet of Things Software Development
(Curriculum 2021)

Time allowed: 2.00 hours

Total Marks: 24

Note: Answer any seven parts from Section 'B' and attempt any two questions from Section 'C' on the separately provided answer book. Write your answers neatly and legibly.

SECTION – B (Marks 14)

Q.2 Attempt any **SEVEN** parts from the following. All parts carry equal marks. Be brief and to the point. (7 × 2 = 14)

- i. Define characteristics of an IoT OS.
- ii. Differentiate between script and program.
- iii. What are foreign key constraints in Database?
- iv. Enlist some cloud service providers.
- v. Define while loop with example.
- vi. Define Machine Learning.
- vii. Differentiate between Supervised and Unsupervised learning.
- viii. Define End-to-End communication.
- ix. What are the vulnerabilities in an IoT network?
- x. What are the three components of attitude?

SECTION – C (Marks 10)

Note: Attempt any **TWO** questions. All questions carry equal marks. (2×5 = 10)

Q.3 Briefly explain the five major applications of Database Management Systems.

Q.4 Briefly explain the five Types of Machine Learning?

Q.5 Briefly explain any five Wireless Network Attacks?

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