

Version No.			

ROLL NUMBER						



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–I
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) VMware is a:

A. Operating Systems <input type="radio"/>	B. Firmware <input type="radio"/>
C. Application Software <input type="radio"/>	D. Hardware <input type="radio"/>
- (2) Which of the following is **NOT** among the main components of IoT system?

A. Sensor <input type="radio"/>	B. User Interface <input type="radio"/>
C. Connectivity <input type="radio"/>	D. Notepad <input type="radio"/>
- (3) Speed of data is expressed in:

A. Hz/s <input type="radio"/>	B. Words/s <input type="radio"/>
C. Bits/s <input type="radio"/>	D. Bits/min <input type="radio"/>
- (4) _____ converts the assembly language code to machine language.

A. Compiler <input type="radio"/>	B. Assembler <input type="radio"/>
C. Linker <input type="radio"/>	D. Interpreter <input type="radio"/>
- (5) _____ is a weakness in your infrastructure.

A. Risk <input type="radio"/>	B. Threat <input type="radio"/>
C. Vulnerability <input type="radio"/>	D. Virus <input type="radio"/>
- (6) The following quality of business builds relationships:

A. Brand loyalty <input type="radio"/>	B. Customer Interaction <input type="radio"/>
C. Evaluation <input type="radio"/>	D. Quality control <input type="radio"/>



Federal Board SSC-I 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. What are the different forms of communication?
- ii. Define confidentiality, integrity and authenticity.
- iii. Differentiate between Computer Security and Cyber Security.
- iv. What is the difference between high level and low level programming languages?
- v. What is the difference between a debugger and a compiler?
- vi. Differentiate between wired and wireless networks.
- vii. Define Router and Switch.
- viii. Differentiate between IPv4 and IPv6.
- ix. Describe functionalities of an operating system.
- x. Name program translation steps.

SECTION – C (Marks 10)

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

Q. 3 Write a program to find separately the sum of the positive and negative integer elements of an array of size 10. Define a function called sortarray (int[]), pass the array to this function and display the array elements into ascending order.

Q. 4 Write a program to input two integer numbers and display the sum of even numbers between these two input numbers.

Q. 5 Explain two network topologies with diagrams.

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