

Total No. of Questions : 10]

SEAT No. :

P2045

[Total No. of Pages : 2

[5059]-650

B.E. (Computer)

EMBEDDED SECURITY

(2012 Pattern) (Elective - II) (Semester - I)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q.10.
- 2) Figures to the right indicate full marks.
- 3) Draw neat diagram wherever necessary.
- 4) Assume suitable data, if necessary.

- Q1)** a) Explain in brief eBay data breach. [6]
b) Explain the need for Trusted Execution environment. [4]

OR

- Q2)** a) Explain the pros and cons of embedded security and management engine. [6]
b) Explain the Boot Integrity. [4]

- Q3)** a) Explain in detail memory protection control for threat analysis and mitigation in security and management engine. [6]
b) Explain any Digital Signature Algorithm. [4]

OR

- Q4)** a) Explain in detail the working of SIGMA protocol. [6]
b) Explain the building blocks of the security and the management engine. [4]

- Q5)** a) Explain the different types of boot attacks. [8]
b) Explain in detail EPID with its working and components. [8]

OR

P.T.O.

Q6) a) Explain how software can use a Trusted platform module to authenticate hardware devices. [8]

b) Compare Integrated Vs. Discrete TPM. [8]

Q7) a) Explain in detail the closed-Door Model. [6]

b) Explain DAL architecture with neat diagram. [6]

c) Explain in brief BIOS alteration. [6]

OR

Q8) a) Explain in detail HDCP (High bandwidth digital contention protection)? [6]

b) Explain dynamic Application loader with neat diagram. [6]

c) Explain field programmable fuses. [6]

Q9) a) Explain the High level security requirements for IoT? [8]

b) Explain the security framework for embedded security in IoT. [8]

OR

Q10) a) Explain in detail IoT reference architecture. [8]

b) Explain the building blocks for Embedded Security. [8]

