

Total No. of Questions : 10]

SEAT No. :

P3560

[Total No. of Pages : 2

[4959] - 1160

B.E. (Computer Engineering) (Semester - I) (End Sem.)

Embedded Security

(2012Pattern) (Elective - II)

Time : 2 1/2 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8, Q.9 or Q.10.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Assume suitable data if necessary.*

Q1) a) Explain any two data breach incident case studies. [6]

b) Define Boot Integrity. [2]

c) Define data breach with an example. [2]

OR

Q2) a) Explain CVSS with it's advantages and limitations. [5]

b) Comment on : open source software best practice as a counter measures to Heartbleed attack. [5]

Q3) a) What is rootkits and explain their types? [4]

b) Explain in detail EPID signature generation & verification algorithm. [6]

OR

Q4) a) Explain working of SIGMA protocol in detail. [6]

b) Explain in brief Intel X86 protection rings with neat diagram. [4]

P.T.O.

- Q5)** a) Explain in detail Architecture for Embedded IPT (Intel Platform Trust Technology). [8]
b) Explain Rooting/Jailbreaking attacks with its type. [8]

OR

- Q6)** a) Explain in detail flow of field programmable fuse task. [8]
b) Explain in brief BIOS and UEFI and attacks on BIOS. [8]

- Q7)** a) Explain in detail Digital Rights Management (DRM). [8]
b) Write a short note on: [8]
i) Intel Wireless Display.
ii) DAL Security Considerations.

OR

- Q8)** a) Explain in detail HDCP (high bandwidth digital content protection). [8]
b) Write a short note on PAVP (protected audio and video path). [8]

- Q9)** a) Explain how embedded security is provided for IOT (Internet of Things). [9]
b) Write a short note on: [9]
Anonymous Authentication and Secure Session Establishment.

OR

- Q10)** a) Explain in detail IOT reference architecture. [9]
b) Write a short note on: [9]
i) Protected Input and Output.
ii) Software guard extension.

