

Total No. of Questions :10]

SEAT No. :

P1884

[4859]-1079

[Total No. of Pages :2

B.E. (Computer Engineering)

EMBEDDED SECURITY

(2012 Pattern) (End Sem.) (Elective - II) (Semester - I) (410445 C)

Time :2½ Hours.]

[Max. Marks :70

Instructions to the candidates:

- 1) Solve 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) Figures to right indicate full marks.*

Q1) a) Explain in brief eBay data breach. **[5]**

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

OR

Q2) a) Explain architecture of Intel AMT. **[5]**

b) Explain advantages and drawbacks of embedded security and management engine. **[5]**

Q3) a) Explain load integrity for threat analysis and mitigation. **[6]**

b) Write a short notes on next generation EPID. **[4]**

OR

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

b) Explain in detail security requirements of security and management engine. **[4]**

Q5) a) Explain in detail Architecture for Embedded IPT (Intel Platform Trust Technology). **[8]**

b) Explain Rooting/Jailbreaking attacks with its type. **[8]**

OR

P.T.O.

- Q6)** a) Write a short notes on: [8]
i) Boot attack
ii) Evil Maid attack
b) Compare Integrated vs. Discrete TPM. [8]
- Q7)** a) Explain in detail Digital Rights Management (DRM). [8]
b) What is the role of following in software based end to end protection.[8]
i) Content Server
ii) License Server
iii) Software Stack
iv) External Display

OR

- Q8)** a) Explain in detail HDCP (High bandwidth digital content protection). [8]
b) Explain Dynamic Application Loader with neat diagram. [8]
- Q9)** a) Explain how embedded security is provided for IOT (Internet of Things). [9]
b) Write a short note on: [9]
i) Trusted Platform Module (TPM)
ii) Software Guard Extension

OR

- Q10)**a) Explain in detail IOT reference architecture. [9]
b) Write a short note on: [9]
i) Protected Input and Output.
ii) Anonymous Authentication and Secure Session Establishment.

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