Total No. of Questions : 10]

SEAT No. :

P3113

[Total No. of Pages : 2

[5154]- 680
B.E. (Computer)
EMBEDDED SECURITY
(2012 Pattern) (Semester - I) (Elective - II) (End Sem.)

Time :2½ Hours] *[Max. Marks :70*

Instructions to the candidates:

1) ***Attempt 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) ***Figures to the right indicate full marks.***
3) ***Draw neat diagram wherever necessary.***
4) ***Assume suitable data, if necessary.***

Q1) a) Explain in detail CVSS (Common Voluntary Scoring System) with its advantages and limitations? **[6]**

b) What is the difference between Embedded Security and Embedded system security? **[4]**

OR

Q2) a) Explain in brief BYOD with its advantages, disadvantages and security considerations? **[6]**

b) What is TrustZone? Why do we need a Trusted Execution Environment? **[4]**

Q3) a) Explain in detail next generation EPID? **[4]**

b) Explain in detail Ring-3 root kit attack and its components and limitations. **[6]**

OR

Q4) a) Explain the buliding blocks of the security and the management engine?**[4]**

b) Explain in detail memory protection control for threat analysis and mitigation in security and management engine? **[6]**

Q5) a) Explain in detail : Intel Boot Guard and clearly state the difference between measured boot and verified boot? **[8]**

b) Explain how Software can use a Trusted Platform Module to authenticate hardware devices? **[8]**

OR

P.T.O.

Q6) a) Explain in detail Architecture for Embedded IPT (Intel Platform Trust Technology)? **[8]**

b) Explain the different types of boot attacks? **[8]**

Q7) a) Explain in brief Digital Rights Management (DRM) with suitable block diagram? **[6]**

b) Explain DAL Architecture with neat diagram? **[6]**

c) Write a short note on : Intel Wireless display (WiDi)? **[5]**

OR

Q8) a) Explain in detail End-to-End Content Protection? **[6]**

b) Explain in detail the Closed-Door Model? **[6]**

c) Explain in detail HDCP (High bandwidth digital content protection)? **[5]**

Q9) a) Explain the key properties of IoT that create several issues for security and raises additional requirements for security? **[6]**

b) Explain the Building Blocks for Embedded Security? **[6]**

c) Write a note on Protected Input and Output? **[5]**

OR

Q10)a) Explain the High Security Requirements for IoT? **[6]**

b) Explain how embedded security is provided for IoT (Internet of Things). **[6]**

c) Explain in short : Anonymous Authentication and Secure Session Establishment? **[5]**