

Total No. of Questions : 10]

SEAT No. :

P2335

[Total No. of Pages : 2

[5254]-670

**B.E. (Computer) (Semester - I)**

**EMBEDDED SECURITY**

**(2012 Pattern) (Elective - II)**

*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 Q10.*
- 2) *Figures to the right indicate full marks.*
- 3) *Draw neat diagram wherever necessary.*
- 4) *Assume Suitable data, if necessary.*

**Q1) a)** Explain EPID (Enhanced Privacy Identification) **[4]**

**b)** Differentiate between Intel AMT vs. Intel vPro Technology. **[6]**

OR

**Q2) a)** Explain in brief eBay data breach? **[4]**

**b)** Explain PAVP with neat diagram? **[6]**

**Q3) a)** Explain in detail Digital signature algorithm. **[4]**

**b)** Explain the embedded security and management engine. **[6]**

OR

**Q4) a)** Explain the boot integrity. **[4]**

**b)** Write short notes on:

i) Random number generation.

ii) Message Authentication. **[6]**

**P.T.O.**

- Q5)** a) Differentiate between BIOS and UEFI. [8]  
b) Explain features of Trusted Platform Module (TPM) [8]

OR

- Q6)** a) Differentiate between Field programmable Fuses vs. Flash Storage. [8]  
b) What is Intel Boot Guard, Measured Boot, Verified Boot? [8]
- Q7)** a) Explain types and levels of rights protection to protect for content. [8]  
b) What are Dynamic application Loader security considerations? [8]

OR

- Q8)** a) Explain popular Digital Right Managements (DRMs) used for protecting online media. [8]  
b) Explain block diagram of Intel's Hardware - Based Content Protection in detail. [8]
- Q9)** a) Write short notes on: [9]  
i) Anonymous Authentication.  
ii) Secure Session Establishment.  
iii) Basic utilities of embedded security.  
b) Explain the building Blocks for Embedded security? [9]

OR

- Q10)** a) Explain Firmware components of security and management engine using neat block diagram? [9]  
b) Write a short note on: [9]  
i) Protected Input and output.  
ii) Software guard extension.  
iii) DAL.

