SEAT No.: [Total No. of Pages: 2

## CYBER SECURITY (Elective - III) B.E. (Computer) (Semester - II) [5254]-677

Instructions to the candidates: Time: 2½ Hours (2012 Pattern)

[Max. Marks: 70

- Neat diagrams must be drawn wherever necessary. Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10. Figures to the right indicate full marks.
- Assume Suitable data if necessary
- QI) a) 5 Explain various active attacks in detail. What are various security technique used in cyber security?

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- Q2) a) Use poly alphabetic ciphers to encrypt plain text "SHE IS VERY HAPPY AND BEAUTIFUL GIRL" use key 'ANOTHER'. U
- 5 What is Stegnography? Explain its application.

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Q3) a) 6 Explain operation of 3DES algorithm. Describe linear & differential cryptanalysis

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- Q4) a)
- 5
- a) Explain RSA algorithm with suitable example.

  ) What is kerberas? Explain its operation.
- 6 What is S/MIME? State operation of S/MIME in detail.
- Q5) a) Describe IPsec protocol with its components & security services.

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Q6) a) What is the role of OAK LEY protocal in communication?

[6]

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- 6 Explain the operation of secure electronic transaction protocal [6]
- C State security measure applied by VPN for security
- 27) a) List & explain types of intrusion detection system (IDS)

[9]

8

6 Describe screened subnet fire wall architecture

OR

Q8) a) Explain the firewall types with its operation.

[9]

- 6 Explain operation of anomaly based intrusion detection system in detail. [8]
- Q9) a) How war dialing software are used in remote connectivity? 00
- 6 for it? How VolP hacking is done by attackers? What are the counter measures 8

- Q10)a) What is VLAN jumping? What are counter measures used for it? 8 00
- Explain various hacking devices used for hacking 210,21,218,80 1042/18941

[5254]-678

P.T.O.