

Bsc T T - V Sen - Revised 2/5/16

**QP Code : 26813**

(3 Hours)

[Total Marks: 100]

- N. B.: (1) All questions are compulsory.  
(2) Make suitable assumptions wherever necessary and state the assumptions made.  
(3) Answers to the same question must be written together.  
(4) Numbers to the right indicate marks.  
(5) Draw neat labeled diagrams wherever necessary.

**1 Answer any two of the following:**

- Describe ESP packet format.
- Write a short note on substitution cipher.
- What are the functions provided by S/MIME?
- Explain briefly three classes of intruders.

10

**2 Answer any three of the following:**

- How does DES work?
- Discuss any two attacks on RSA Cryptosystem.
- What is the concept of Vignere cipher? Explain with the help of an example.
- What are the modes of operations in DES? Explain.
- Write a short note on public key cryptography.
- What are different types of cryptanalysis attacks? Explain.

15

**3 Answer any three of the following:**

- Explain the concept of message digest.
- What is hash function?
- What is the concept of Birthday attack?
- Write a short note on station to station protocol.
- What is the key agreement?
- Explain DSS algorithm.

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**4 Answer any three of the following:**

- Explain the various security attacks.
- Explain security service "Data Integrity" in detail.
- Explain briefly any two security mechanisms.
- Write a short note on Data Confidentiality and Privacy.
- Explain the OSI security architecture in detail.
- Describe CIA Triad of computer security.

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**5 Answer any three of the following:**

- Explain the concept and working of Kerberos realm.
- What is the purpose of X.509 certificates? What is a chain of certificates?
- What is RFC 5322?
- List the five principle services provided by PGP and explain confidentiality in detail.
- What are the steps of authentication process? What are the means of authentication of user's identity?
- How do PGP messages support E-mail compatibility?

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**NS-Con. 4068-16.**

**6 Answer any three of the following:**

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- a. What is the role of IPSec in routing application?
- b. What are the benefits of IPSec?
- c. Explain very briefly SSL protocol stack.
- d. What is the difference between SSL connection and SSL session?
- e. What are the attributes of Security Association database?
- f. What is the concept of IKE? What are its features?

**7 Answer any three of the following:**

15

- a. How does worm propagate in network?
- b. What are the services of firewall?
- c. What are the contents of audit records?
- d. List and explain the classification of viruses.
- e. Explain the three different firewall configurations.
- f. List four techniques used by firewalls to control access and enforce a security policy.

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BSc in

Sem - V (RBN)

31/5/16  
evening

QP Code : 26817

(3 Hours)

[Total Marks: 100]

- N. B.: (1) All questions are compulsory.  
(2) Make suitable assumptions wherever necessary and state the assumptions made.  
(3) Answers to the same question must be written together.  
(4) Numbers to the right indicate marks.  
(5) Draw neat labeled diagrams wherever necessary.  
(6) Use of Non-programmable calculators is allowed.

1. Attempt any two of the following: 10  
a. Explain the working of session state in ASP.NET.  
b. List and explain the advantages of CSS over HTML.  
c. Explain framework base class library.  
d. Write short note on JQuery event functions.
2. Attempt any three of the following: 15  
a. What is namespace? Explain System namespace.  
b. What is garbage collection? How it works?  
c. Explain compiling and execution of a C# program.  
d. What is the difference between Read() and ReadLine()? Explain with an example.  
e. Write a short note on switch statement. What is fallthrough in switch?  
f. Distinguish between operator polymorphism and inclusive polymorphism.
3. Attempt any three of the following: 15  
a. Write a short note on the Systems.Collections namespace.  
b. List and explain the steps to create a delegate.  
c. Write a short note on GUI. State its advantages.  
d. Differentiate between ListBox and ComboBox controls  
e. What are the advantages of using Common Dialog Box?  
f. Explain at least five properties of TextBox Control.
4. Attempt any three of the following: 15  
a. Write a short note on web.config file.  
b. Explain the various directive supported by ASP.NET page  
c. Differentiate between inline code and code behind.  
d. Explain procedure of creating and using named theme in a website.  
e. What is state management? Explain the code render block with suitable example.  
f. Explain ASP.NET page life cycle.
5. Attempt any three of the following: 15  
a. Describe the process of creating a user control with an example.  
b. Explain CustomValidator control.  
c. Define caching in ASP.NET. List the advantages of caching  
d. What is difference between Server.Redirect and Server.Transfer? Explain with suitable example.  
e. Explain the relation content page and master page with example.  
f. What is regular expression? Explain regex patterns.

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6. Attempt any three of the following: 15
- a. Explain command object in ADO.NET
  - b. Differentiate between DataSet and DataReader.
  - c. What is an authentication? Explain passport authentication in ASP.NET.
  - d. Explain ADO .NET object model with help of suitable diagram.
  - e. Write a short note on the GridView control.
  - f. Explain the Provider Model of ASP .NET.
7. Attempt any three of the following: 15
- a. Write and explain LINQ query syntax in brief.
  - b. What is LINQ? List the advantages of using LINQ.
  - c. List and explain jQuery selectors.
  - d. Explain DOM manipulation methods in jQuery.
  - e. List the advantages and disadvantage of AJAX.
  - f. Explain UpdatePanel control with example and properties.
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