Hall Ticket Number:

III/IV B.Tech (Supplementary) DEGREE EXAMINATION

April, 2017

Sixth Semester   **Computer Networks**

Time: Three Hours   **Maximum :** 60 Marks

Answer Question No.1 compulsorily.   (1X12 = 12 Marks)

Answer ONE question from each unit.   (4X12=48 Marks)

1. Answer all questions   (1X12=12 Marks)
   - a. Differentiate WAN & MAN.
   - b. What is meant by Packet Switching?
   - c. How multicasting is different from Broadcasting?
   - d. Define a subnet.
   - e. What is the need of tunneling?
   - f. Define VitualCircuit.
   - g. List out Berkeley Socket primitives..
   - h. What is RPC?
   - i. Which layer is responsible for physical addressing?
   - j. Expand POP3 and IMAP.
   - k. List the elements of Transport protocol
   - l. What is DNS?

UNIT I

2.a What is the principle difference between Connectionless communication and Connection-oriented communication?   6M

2.b Compare and contrast OSI & TCP/IP models   6M

(OR)

3.a Explain about Ethernet and flodding.   6M

3.b Compare virtual –circuit and datagram subnets.   6M

UNIT II

4. Explain about QoS of network layer.   12M

(OR)

5.a What is Internetworking? Explain its concept.   6M

5.b Describe OSPF interior Gateway Routing protocol.   6M

UNIT III

6.a List and explain Transport service primitives.   6M

6.b What is multiplexing? Explain its functionality.   6M

(OR)

7.a Describe TCP and its header format with a neat sketch.   6M

7.b Explain about TCP connection Establishment and Release.   6M

UNIT IV

8.a What is a Name space? Explain its concept with example.   6M

8.b Explain i) User Agent   ii) Electronic Mail Architecture   6M

(OR)

9. Explain the following.
   i) Domain Name System   6M
   ii) WWW   6M

Hall Ticket Number:

April, 2017	Computer Science & Engineering
Sixth Semester	**Introduction to Data Analytics & Cyber Security**

Time: Three Hours   **Maximum :** 60 Marks

Answer Question No.1 compulsorily.   (1X12 = 12 Marks)

Answer ONE question from each unit.   (4X12=48 Marks)

1   Answer all questions   (1X12=12 Marks)

   a)   Define Data Science
   b)   How do set the path for current working directory in R?
   c)   How can you load and use csv file in R?
   d)   What are the different ways to call a function in R?
   e)   What is Regression Analysis?
   f)   What is Business Intelligence?
   g)   List out types of attacks
   h)   Define virus
   i)   What is SQL injection?
   j)   What is the difference between malware and trojan
   k)   What is audit?
   l)   List out key elements of Network

UNIT I

2	a)	Write calculator and vector operations in R with examples?	6 M
	b)	Explain in detail about data frames and matrices?	6 M

(OR)

3	a)	Explain the process of Importing & Exporting CSV files and excel files in R?	6 M
	b)	Explain Probability distribution and Normal distribution in detail?	6 M

UNIT II

4	a)	Differentiate SQL vs NOSQL	6 M
	b)	The Business Analysis(BA) process can solve problems and identify opportunities to improve business performance-Justify	6 M

(OR)

5		What is Regression Model? How an OLS regression model constructed in 'R', illustrated with suitable example.	12 M

UNIT III

6	a)	Explain about types of attacks and information security threats	6 M
	b)	Explain briefly types of trojans	6 M

(OR)

7	a)	Explain about information security measures	6 M
	b)	What is SQL injection. Explain about phishing attack	6 M

UNIT IV

8	a)	Explain about information security roles and responsibilities	6 M
	b)	Explain about security Laws	6 M

(OR)

9	a)	Explain about feedback loops of Risk management	6 M
	b)	Explain security policy management	6 M

CS/IT 324

Hall Ticket Number:

April, 2017	Common for CSE & IT
Sixth Semester	**Software Engineering**
Time: Three Hours	**Maximum :** 60 Marks

Answer Question No.1 compulsorily.   (1X12 = 12 Marks)

Answer ONE question from each unit.   (4X12=48 Marks)

1. Answer all questions   (1X12=12 Marks)
- a) Differentiate personal software process and team software process.
- b) What are the merits of incremental model?
- c) List the task regions in the Spiral model?
- d) What is system engineering?
- e) What is the software crisis from programmers point of view.
- f) Calculate the effort required for the project and line of code if functional point involve in the project 650 based on productivity parameter 8.5 FP/month & if the project is developed FORTAN language with LOC/FP is 105.
- g) Calculate the cyclomatic complexity of a system with 8 edges & 6 nodes.
- h) Calculate number of test cases need to prepare for the evaluation of Square with has four points in construction based on boundary value analysis :generic case.
- i) What are the attributes of good software?
- j) Define Formal Technical Reviews?
- k) List the process maturity levels in SEIs CMM?
- l) What are the umbrella activities of a software process?

UNIT I

2	a)	Explain the significance of the project planning and control	6M
	b)	What is legacy system? Explain components of legacy system.	6M

(OR)

3	a)	What is Software process model ? Explain the types of Software process models	6M
	b)	What is pair programming? Highlight its advantages	6M

UNIT II

4	a)	Describe briefly the phase of the system engineering process, with a neat diagram.	6M
	b)	What is requirement elicitation and analysis.	6M

(OR)

5	a)	Identify the stake holders of ATM system and classify them according to view points.	6M
	b)	List out the core principles of software engineering practices	6M

UNIT III

6	a)	Explain client-server architecture with example?	6M
	b)	Consider to design a system for the inventory and billing operations of a "retail medical outlet" .Draw the context level data flow diagrams(DFDs) for the system and also prepare a SRS document.	6M

(OR)

7	a)	What is software prototyping ? Give the benefits of software prototyping	6M
	b)	Describe the Design Interface steps	6M

UNIT IV

8	a)	Write about size-oriented and function-oriented metrics.	8M
	b)	Difference between black box testing and white box testing	4M

(OR)

9	a)	. What are the steps for top down integration?	4M
	b)	Different types of software testing	8M

III/IV B.Tech (Supplementary) DEGREE EXAMINATION

April, 2017	**Common for CSE & IT**
Sixth Semester	**Enterprise Programming**
Time: Three Hours	**Maximum :** 60 Marks

Answer Question No.1 compulsorily. (1X12 = 12 Marks)

Answer ONE question from each unit. (4X12=48 Marks)

1   Answer all questions   (1X12=12 Marks)
   a) What are the Standard Services provided by J2EE?
   b) List the rules to define well formed XML document.
   c) Compare Applet and Servlet.
   d) What is the purpose of Deployment Descriptor?
   e) Write the syntax for variable declaration in JSP.
   f) What are the types of Session Bean?
   g) What are the disadvantages of RMI?
   h) List the components of Java Mail.
   i) Define Distributed Object Model.
   j) Describe WSDL.
   k) What are the advantages of Web services?
   l) List any two tools for web services.

UNIT I

2   a) Define XML. Describe how to create an XML Schema with an example.   6M
   b) Explain Servlet Life Cycle methods with simple example.   6M
(OR)
3   a) Discuss about Service tier patterns.   6M
   b) Explain how to read the Servlet initialization parameters with an example.   6M

UNIT II

4   a) Explain anatomy of JSP page and JSP Page Processing.   8M
   b) Discuss about scalability and performance issues of EJB.   4M
(OR)
5   a) Write about JSP Implicit Objects.   6M
   b) Explain EJB Container Framework.   6M

UNIT III

6   a) Explain about Java Messaging Service.   6M
   b) Explain CORBA and Java IDL mapping.   6M
(OR)
7   a) Explain RMI Architecture with a neat diagram.   6M
   b) Explain the classes available in JNDI.   6M

UNIT IV

8   a) Explain SOAP Message Architecture.   6M
   b) Explain Web Services in Service Oriented Architecture.   6M
(OR)
9   a) What is UDDI? Discuss UDDI architecture.   6M
   b) Write short notes on Electronic Business XML.   6M

Hall Ticket Number:

<center>III/IV (Supplementary)B.Tech DEGREE EXAMINATION</center>

April, 2017	**Common for CSE & IT**
Sixth Semester	**.NET Technologies**
Time: Three Hours	**Maximum :** 60 Marks

Answer Question No.1 compulsorily. (1X12 = 12 Marks)

Answer ONE question from each unit. (4X12=48 Marks)

1   Answer all questions (1X12=12 Marks)
   a) What is Common Language Runtime?
   b) What is logging?
   c) What is the need for State Management?
   d) Write the syntax for creating Calendar control
   e) What is validation group
   f) What is Graphics class
   g) What is the need of SiteMap
   h) What is a Menu
   i) What is FormView
   j) What is LINQ?
   k) What is MVC Model
   l) What is the need for a Webservice?

UNIT I

2   a) Discuss about the .NET framework with a neat diagram   6M
    b) Create an application in ASP.NET that accepts the Username, Password from the user. Also   6M
       Create a Submit button to handle the event?

(OR)

3   a) Explain about the exception handling mechanism in ASP.NET with an example?   6M
    b) Discuss about the usage of Session Tracking in state management in ASP.NET   6M

UNIT II

4   a) Illustrate with an example the process of validating a control in ASP.NET   6M
    b) Discuss about MultiView Control   6M

(OR)

5   a) Discuss about Themes in ASP.NET   6M
    b) Explain about TreeView Control   6M

UNIT III

6   a) Discuss about Direct Data Access with ADO.NET   6M
    b) Discuss about GridView control with an example   6M

(OR)

7   a) Discuss about Data Binding.   6M
    b) Discuss about the LINQ feature in .NET Framework   6M

UNIT IV

8   a) Discuss about Internet Information Services for deploying ASP.NET applications   6M
    b) Explain the process of building a XML Web Service   6M

(OR)

9   a) Explain about the Architecture of MVC   6M
    b) Create a Simple Data-Entry Application with the use of Model View controller   6M