7E7031

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7E7031

B.Tech. VII Semester (Main) Examination, Dec. - 2015

Computer Science & Engineering

7CS1A Cloud Computing

Time : 3 Hours **Maximum Marks : 80**
Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting one question from **each unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly).*

Unit - I

1. a) What are the broad approaches for migration into cloud? Discuss the challenges and risks involved in this process. **(8)**

   b) Explain the followings with reference to cloud computing (in brief):-

      i) Ethical issues

      ii) Networking support. **(2×4)**

OR

1. a) Explain the various features, characteristics and components of cloud computing system. **(8)**

   b) What are the various services provided by the cloud to the end user and what are its advantages. **(8)**

Unit - II

2. a) Explain parallel and distributed programming paradigms in cloud computing using a practical example **(8)**

b) Describe the following service delivery models by giving the suitable examples in industry:-

i) IaaS

ii) SaaS

(2×4)

OR

2. a) Write short notes on :-

i) Map Reduce

ii) Hadoop

(2×4)

b) Explain various service layers in layered architecture of cloud with the help of suitable examples.

(8)

Unit - III

3. What is virtualization ? Explain the various implementation levels of virtualization Differentiate between server and desktop virtualization

(16)

OR

3. a) What is network virtualization ? Describe the various components in network virtualization

(8)

b) Write short notes on:-

i) VMware hypervisor

ii) KVM hypervisor

(2×4)

Unit - IV

4. a) What are the types of security policies for cloud computing? (8)

b) What is business continuity planning (BCP) ? Explain the importance & Process of BCP.

(8)

OR

4. a) What are cloud security requirements. Explain the various security challenges in cloud computing. **(8)**

b) Write short notes on:-

i) Service level agreements

ii) Trust management. **(2×4)**

Unit - V

5. a) What is Google App. Explain the architecture of Google App Engine in detail. **(8)**

b) What do you understand by federated cloud ? Explain using a suitable example **(8)**

OR

5. a) Explain the data analysis application of cloud computing **(8)**

b) Describe the system architecture of aneka using a suitable example. **(8)**

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7E7032

B.Tech. VII Semester (Main) Examination, Dec. - 2015

Computer Science & Engineering

7CS2A Information System Security

CS, IT

Time : 3 Hours

Maximum Marks : 80
Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting one question from **each unit**. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.*

Unit - I

1. a) What is cryptography? Explain Block and stream ciphers in detail. **(8)**

   b) What are the non-linear components used in DES encryption & description **(8)**

OR

1. a) Differentiate amongst cryptology, cryptography and cryptanalysis **(8)**

   b) What are the difference between active and passive attack? Determine the security services required to counter these attack. **(8)**

Unit - II

2. What is AES? What are the major parameters used in AES? Explain the processing of plain text with a suitable diagram. **(16)**

OR

2. a) What is the purpose of the S-Boxes is DES? What is the criteria to design S-Boxes? **(10)**

   b) Explain RC6 in detail. **(6)**

Unit - III

3. a) What is the strength of RSA? What are the different kinds of attacks possible against RSA? **(8)**

   b) What is X.509 certificate? Differentiate between X.509 client certificate and a normal SSL certificate. **(8)**

OR

3. Explain diffie Hellman key Exchange Algorithm in detail what are "Clogging attack" and "Man in the middle attack" on Diffie Hellman algorithm? **(16)**

Unit - IV

4. a) Differentiate between MAC and Hash value What are the characteristics of a good hash function? **(8)**

   b) Explain SHA in detail. **(8)**

OR

4. a) Explain Birthday attack on digital signature. Does it involve breaking of strong collision resistance or weak collision resistance? Justify your answer **(8)**

   b) What are the difference between source authentication and source Non-repudiation? Also explain the MD5 in detail **(8)**

5. a) W
   W

   b) D

5. Write

   a)

   b)

   c)

Unit - V

5. a) What are the services provided by PGP? What is Radix -64 Transformation? Why it is required in PGP? **(10)**

b) Define IP Security Architecture. **(6)**

OR

5. Write short note on(any 2)

a) Lamport's Hash

b) Transport and Tunnel mode

c) Authentication Header **(8×2=16)**

OR

2. a) What are the different types of data bases? Explain them? **(8)**

   b) Describe any one association rules algorithm with example? **(8)**

Unit - III

3. a) Describe Neural Network Techniques for data mining ? Also Explain the relation between decision trees and classification rules? **(8)**

   b) What are advantages and disadvantages of decision tree approach over other approaches of data mining **(8)**

OR

3. a) What do you mean by Genetic Algorithm? How hypothesis testing and refinement task can be done using genetic algorithm. **(8)**

   b) Describe the various types of density based methods and grid based methods in detail? **(8)**

Unit - IV

4. a) What is data warehouse? How it is different from an operational database?**(8)**

   b) Explain the architecture of data ware house. **(8)**

OR

4. Write a short note on:-

   i) 3-Tier Architecture

   ii) Data Cubes

   iii) Multi dimensional and data model

   iv) Stars **(4×4=16)**

Unit - V

5. a) Differentiate between OLTP and OLAP? **(6)**

b) What do you mean by Aggregation? And Explain different aggregate function? **(10)**

OR

5. a) Write a short note on:- **(4×2=8)**

i) ROLAP

ii) MOLAP

b) Explain the testing terminologies in brief. **(8)**

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7E7034

B.Tech. VII Semester (Main) Examination, Dec. - 2015

Computer Science & Engineering

7CS4A Computer Aided Design for VLSI

Time : 3 Hours **Maximum Marks : 80**

Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting one question from **each unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)*

Unit - I

1. a) What are the different semi-custom design styles for circuits? **(8)**

   b) Explain the four phases in creating micro electronics chips in computer aided synthesis and optimization. **(8)**

OR

1. a) What are the various views and levels of the micro electronic circuit models. Also express the relation between them. **(8)**

   b) Compare the following task realization approaches:

      i) Full custom

      ii) Semi custom.

      iii) Off the shelf IC package

      iv) Off the shelf micro computer. **(2×4=8)**

Unit - II

2. a) What is Binary decision diagram? Explain ROBDD algorithm. **(8)**

   b) Explain the compilation and behavioral optimizations. **(8)**

OR

2. a) Explain ITE algorithm and QUANTIFY algorithm. **(8)**

   b) Write short note on:

      i) Abstract models

      ii) Hierarchical sequencing graphs. **(4×2=8)**

Unit - III

3. a) Explain ASAP scheduling algorithm using one example. **(8)**

   b) Distinguish between temporal and spatial domain scheduling. Give one example explaining resource binding in hierarchical sequencing graph. **(8)**

OR

3. a) Explain Heuristic scheduling algorithm with example, show optimum schedule under resource constraints. **(8)**

   b) Discuss the classification and categories of resource and constraints with the help of examples. **(8)**

Unit - IV

4. a) Explain resource sharing and resource binding. What are compatibility and conflict graphs? **(8)**

   b) Write the algorithm for exact logic minimization with an example. **(8)**

OR

4. a) Explain register sharing and bus sharing with the help of example. **(8)**

   b) State and explain the principles of logic optimization. **(8)**

Unit - V

a) Explain physical design cycle with appropriate diagram. **(8)**

b) Explain Global routing along with goals and objectives. **(8)**

OR

a) Explain left edge algorithm with an example. **(8)**

b) Explain clock routing, power routing and via minimization. **(8)**

7E 7035

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7E7035

B.Tech. VII Semester (Main & Back) Examination, Dec. 2015

Computer Science & Engineering

7CS5A Compiler Construction

Time : 3 Hours **Maximum Marks : 80**

Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting one question from **each unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)*

Unit - I

1. Explain the difference phases of compiler design with the help of suitable diagram? **(16)**

OR

1. Write a regular expression and construct a transmission diagram of the following:
   i) Identifier and keywords in pascal
   ii) Unsigned numbers in pascal. **(16)**

Unit - II

2. Consider the following grammar G:-

$E \rightarrow TE'$

$E' \rightarrow +TE', \in$

$T \rightarrow FT'$

$T' \rightarrow *FT', \in$

$F \rightarrow (E), id$

Where $\in$ denotes the empty string of symbols

i) Compute FIRST and FOLLOW for each nonterminal OF the grammar G.
ii) Construct a predective parsing table for grammar G. (1

OR

2. Explain why Bottom-up parsing is more generally applicable then top-down parsing (16

Unit - III

3. Define syntax directed definition. Explain the various forms of syntax directe definition? (16

OR

3. Translate the arithmetic expression: $(a+b)*(c+d)+(a+b+c)$ into
   i) Syntax tree
   ii) Three address code
   iii) Quadruple
   iv) Triples
   v) Indirect triples. **(16)**

Unit - IV

4. Write short notes on
   i) Symbol Table
   ii) Storage allocation strategies
   iii) Activation Record **(16)**

OR

4. Differentiate between stack allocation & heap allocation? **(16)**

Unit - V

5. Consider the program for dot product calculation:

```
Begin
    Prod : = 0
    i : = 0
    do
Begin
    Prod : = Prod + a [i] * b [i]
    i : = i + 1
End
    While i < = 20
```

i) Construct flow graph from three address code.

ii) Optimize this code reduce for common sub-expression, loop invariants, induction variables and reduction in strength.

iii) Find the basis block and construct the flow graph. Optimize the code by applying function preserving transformation. **(16)**

OR

4. Construct the tree for following expression and apply labelling algorithm for optimal ordering $x*(y+z)-z/(u-v)$ **(16)**

7E7036

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7E7036

B.Tech. VII Semester (Main & Back) Examination, Dec. - 2015

Computer Science & Engineering

7CS6.1A Advance DataBase Management Systems

Common With CS (Old & New) & IT (Old)

Time : 3 Hours **Maximum Marks : 80**

Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting one question from **each unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly).*

Unit - I

1. What is Optimization? How can you optimize a SQL query and how we estimate cost of query plan? Explain with suitable examples. **(4+6+6=16)**

OR

1. a) Explain the term system catalog? Also explain how catalog are stored? **(8)**

   b) Describe enumeration of alternative plan in brief? **(8)**

Unit - II

2. a) Define and describe abstract data type. How methods of abstract data types define in an external programming language? **(8)**

   b) What is reference type? Define deep and shallow equality and illustrate them through an example. **(8)**

OR

2. a) What is the object database system? How object database system support for complex object and types of object? **(8)**

   b) What are different structured data types available in object database system? **(8)**

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Unit - III

3. a) What is concurrency control? What are the recovery techniques to overcom from concurrency? (8

b) How are data flow concept used to parallelize existing sequential code? (8

OR

3. a) What is distributed DBMS? Explain its architecture. (8)

b) How can we evaluate and optimize queries over distributed data? (8)

Unit - IV

4. a) Explain the term security policy and security mechanism and how they are related. (8)

b) Describe role of database administrator in statistical DBMS. Write all security and authorization method in detail. (8)

OR

4. a) Define and describe integrity constrains and multilevel relational and polyinstantiation with an example. (8)

b) Discuss the DOD security levels for database system. (8)

Unit - V

5. a) Explain the transaction management with various key notation. (8)

b) What is XML? What is the background of XML with SGML & HTML? (8)

OR

5. a) Explain in brief query processing optimization and system architecture? (8)

b) Describe POSTGRES user interface? Explain its architecture? (8)

1. a)

b)

1. a

2.

2.

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7E7051

B.Tech. VII Semester (Main & Back) Examination Nov. - Dec. 2015

Information Technology

7IT1A Software Project Management

Time : 3 Hours **Maximum Marks : 80**

Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting one question from **each unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)*

Unit - I

1. a) Why project management is important in software development. Give justification to your answer. **(10)**

   b) Explain W^5HH principle of project management. **(6)**

OR

1. a) Explain Metrics for process and project in detail. **(8)**

   b) How metrics can be integrating within software process? Explain. **(8)**

Unit - II

2. Give cost estimation models along with the parameters of estimation during software project management. **(16)**

OR

2. How efforts can be estimated during software project management also describe the parameters for quality estimation. **(16)**

Unit - III

3. What is Risk management? Give Reactive v/s proactive Risk strategies in detail along with various Software Risk. (16)

OR

3. a) Explain Quantitative approaches to quality management in detail. (10)

   b) Write short note on quality process planning. (6)

Unit - IV

4. Write short notes on

   a) Formal technical review and software Review. (2×8)

   b) Software configuration management.

OR

4. Write short notes on

   a) Configuration management for web engineering . (2×8)

   b) Software quality assurances.

Unit - V

5. a) Explain the review process with planning overview and preparation in detail.

   b) Explain Reviews and the NAH syndrome. (10)

OR (6)

5. Explain and write a technical note on the following.

   a) Actual versus estimated analysis of effort and schedule. (8)

   b) Monitoring quality and Risk related monitoring. (8)

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Roll No.

7E 7052

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B.Tech. VII Semester (Main&Back) Examination, Dec. - 2015

Information Technology

7IT4A Internet Programming

Time : 3 Hours **Maximum Marks : 80**

Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting one question from **each unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)*

Unit - I

1. a) Is there any difference between cascading style sheets and embedded style sheets in XHTML? Explain

   b) What do you understand by CSS3? Explain.

OR

1. a) Explain the W3C XHTML validation service with a suitable example.

   b) What are the different text flow media types? Explain one in detail.

Unit-II

2 a) Explain document object model (DOM) in detail.

   b) What do you mean by extensible style sheet language? Explain .

OR

2. a) What are DTDs ? Explain with suitable examples.

   b) What is meant by RSS? Explain in detail .

[Contd....

Unit-III

3. a) How do you create a full scale Ajax enabled application? Explain by an example.

   b) What do you understand by 'Microsoft Internet Information Services Server'? Explain.

OR

3. a) What do you mean by HTTP transaction? Give 3 examples and explain.

   b) Is there any difference between client side scripting and server-side scripting? Explain.

Unit-IV

4. a) What do you mean by session tracking in Ajax? Explain with a suitable example.

   b) How do you connect to a database? Explain using PHP language example.

OR

4. a) What is the significance of string processor in PHP? Explain with an example.

   b) How do you connect to a database in ASP.NET? Explain with a suitable example

Unit-V

5. How do you create an run an application in NetBeans? Explain with a suitable example.

OR

5. What is Java server faces's session tracking? How do you achieve it? Explain with a suitable example

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7E7053

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7E7053

B.Tech. VII Semester (Main/Back) Examination, Dec. - 2015

Information Technology

7IT5A Computer Graphics & Multimedia Techniques

Time : 3 Hours

Maximum Marks : 80
Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting one question from **each unit**. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.*

Unit - I

1. a) Discuss the importance and utility of a display processor in computer graphics system. Also list up the advantages and disadvantages of raster and vector graphics. **(8)**

   b) Explain the process of displaying objects in raster display. Draw the block diagram of the architecture of display system. **(8)**

OR

1. a) Explain scan conversion. Write a Bresenham's for line $m \geq 1$. Write advantage of Bresenham's line algorithm over DDA line algorithm. **(10)**

   b) Write boundary fill algorithm to fill an 8-Connected region. **(6)**

Unit-II

2 a) What are the uses of homogenous coordinates? Convert translation rotation and scaling in homogenous coordinates **(8)**

   b) What is composite transformation? Explain two successive translations and rotations. **(8)**

OR

2. a) What is line clipping? Explain Cohen-Sutherland line clipping algorithm. **(8)**

   b) How can polygons be clipped. Explain Sutherland-Hodgeman polygons clipping algorithm. **(8)**

Unit-III

3. Explain depth Buffer Algorithm to display visible surfaces of a given polyhedron. Also explain the any relation in object and storage requirements of the depth buffer? **(16)**

OR

3. a) What is Beizer curve? Explain the Beizer blending functions **(8)**

   b) Write a short note on B-spline curve. **(8)**

Unit-IV

4. a) Discuss about CMY color model and YIQ color model. **(8)**

   b) Explain phong shading and compare it with Gourand shading. **(8)**

OR

4. a) Write short note on Diffuse Reflection and Ambient Reflection **(10)**

   b) Define illumination? Explain process of illumination **(6)**

Unit-V

5. a) Explain the various components required for a multimedia system. **(8)**

   b) What are the major application areas of multimedia? **(8)**

OR

5. Write short note on following:

   a) SCSI User interface.

   b) MCI User interface.

   c) RTF File format.

   d) BMP File format. **(4×4)**

7E7054

Roll No. _____ [Total No. of Pages : 2]

7E 7054

B.Tech. VII Semester (Main&Back) Examination, Dec. - 2015

Information Technology

7IT6.2A Intelligent Systems

Time : 3 Hours **Maximum Marks : 80**

Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting one question from **each unit**. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly).*

Unit - I

1. a) What is AI? Explain its origin and its various applications. **(8)**

   b) Differentiate between knowledge base system and data base system **(8)**

OR

1. a) What do you mean by knowledge manipulation?Explain how uncertainty is managed in AI. **(10)**

   b) Why LISP used for AI? **(6)**

Unit-II

2 a) What is the need of Inference rules in AI? **(8)**

   b) Draw the block diagram of fuzzy logic. Explain the concept of fuzzy logic control in brief. **(8)**

OR

2 a) What are the advantages of fuzzy logic control over artificial neutral network? **(8)**

   b) What are semantics? Explain the semantic rules for statement? Also describe the properties of statements **(8)**

Unit-III

3. a) What is knowledge? Differentiate procedural and declarative knowledge in detail. **(8)**

   b) What are the different searching strategies used in knowledge organization? **(8)**

OR

3. a) Explain any matching technique used in knowledge organisation. **(8)**

   b) How the knowledge manage in organisation? Explain with a suitable example **(8)**

Unit-IV

4 a) Explain premise clauses and conclusion clauses in rule based knowledge representation **(8)**

   b) What are the different rules properties used for knowledge representation? **(8)**

OR

4 a) Explain forward chaining algorithm **(8)**

   b) What are source uncertainty? Explain Baye's theorem in detail. **(8)**

Unit-V

5. What do you mean by knowledge acquisition? What are the different issues should be considered for planning knowledge acquisition? **(16)**

OR

5 Write short note on (any two)

   a) Expert system

   b) Advantages of knowledge acquisition

   c) Learning by induction **(2×8=16)**

7E 4241

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7E 4241

B.Tech. VII Semester (Back) Examination, Dec. - 2015

Computer Engg.

7CS5(O) Computer Graphics & Multimedia Techniques

Common to CS&IT

Time : 3 Hours **Maximum Marks : 80**

Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting **one** question from **each unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly).*

Unit - I

1. a) Rasterize circle points using mid point circle algorithm, given r = 8 and (x_0,y_0) at (4,4) **(6)**

   b) Explain beam penetration method of displaying colors. Differentiate it with shadow mask method. **(10)**

OR

1. a) Can random scan system display realistic shaded scan? Explain the architecture of random scan system. **(8)**

   b) Explain :

      i) Video controller

      ii) Flat panel Display **(4+4)**

Unit - II

2. a) Derive a formula to rotate a point by θ^0 **(8)**

   b) Explain prospective projection and vanishing point with examples **(8)**

OR

2. Write short notes on :

   i) Boundary filling

   ii) Inverse Transformation

iii) Point clipping

iv) Reflection (4×4=16)

Unit - III

3. a) Write a program that calculates parameters A, B, C and D for any set of 3D plane surface defining an object. (6)

b) What are Bezier cubic curves? Derive their properties. Also show that the sum of blending functions in identical to 1 for all values of K. (10)

OR

3. a) Explain Z buffer algorithm for hidden surface elimination. (8)

b) Write scan line algorithm. (8)

Unit - IV

4. Explain the following

i) Ray tracing Algorithm

ii) Diffuse Reflection

iii) RGB color model

iv) Phong shading (4×4=16)

OR

4. a) What is the difference between tones and tints? Explain. (6)

b) Write an algorithm for transformation of HSV values to corresponding RGB values. (10)

Unit - V

5. a) Explain multimedia communication architecture with diagram. (8)

b) What is MIDI ? Explain. (8)

OR

5. a) Explain the use of compression technique in computer Graphics. (8)

b) Describe Hardware components of multimedia. (8)

7E 4237

Roll No. _____ [Total No. of Pages : 3]

7E 4237

B.Tech. VII Semester (Back) Examination, Nov/Dec - 2015

Computer Engg.

7CS1 (O) Software Project Management

Time : 3 Hours

Maximum Marks : 80
Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting **one** question from **each unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.)*

Unit - I

1. a) Define Project. Explain different stages of Project **(8)**

   b) What do you mean by management spectrum? Explain W^5HH principle in detail. **(8)**

OR

1. a) Explain size oriented and function oriented matrices in detail. **(8)**

   b) How will you integrate matrices within software program? Write down the guidelines for effective software matrices program. **(8)**

Unit - II

2. a) Explain project planning process. Also explain different types of resources **(8)**

   b) What do you mean by feasibility? Explain various feasibility factors associated with software development. **(8)**

OR

2. a) Explain the steps of software project estimation **(8)**

b) Write down the difference between FP estimation and LOC estimation. **(8)**

Unit - III

3. a) Define Project scheduling. Write down the basic principles of Project scheduling. **(8)**

b) Explain the following

i) Earned value analysis

ii) Risk management and monitoring **(2×4=8)**

OR

3. a) Explain Quality process planning and defect prevention planning in detail. **(8)**

b) Explain procedural and quantitative approaches to quality management **(8)**

Unit - IV

4. Define Software Quality. Explain Software Quality concept and its factors in detail. **(16)**

OR

4. a) Explain Software quality assurance in detail. **(8)**

b) Explain SCM process in detail. **(8)**

Unit - V

5. a) What is review process? Explain the stages of group review process in detail. **(8)**

b) Explain the following :

i) Analysis and control guidelines

ii) NAH syndrome **(2×4=8)**

OR

5. a) Explain project tracking, Activity tracking, defect tracking and issue tracking **(8)**

b) What is the role of closure analysis? Explain closure analysis report. **(8)**

7E4238

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7E4238

B.Tech. VII Semester (Old Back) Examination, Dec. - 2015

Computer Science & Engineering

7CS2(O) Wireless Communication & Networks CS, IT

Time : 3 Hours **Maximum Marks : 80**

Min. Passing Marks : 24

Instructions to Candidates:

*Attempt any **five** questions, selecting **one** question from **each unit**. All questions carry **equal** marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.*

Unit - I

1. a) Discuss Application of mobile Communication and Radio System around the world with suitable example of wireless communication. **(8)**

   b) Explain the concept of frequency Reuse in detail. **(8)**

OR

1. a) Explain the techniques used for the improvement of coverage and capacity in cellular systems. **(8)**

   b) What are the effects of Multigraph propagation? Also explain transmission impairments **(8)**

Unit - II

2. a) Explain the need for specialized MAC in brief **(8)**

   b) Explain hidden and exposed, near and far terminal in detail. **(8)**

OR

2. a) What is GSM? Discuss system Architecture of GSM and mobile services. **(8)**

   b) Explain the concept of localization and calling. **(8)**

Unit - III

3. a) Describe the design goals; advantages and Disadvantages of wireless LAN **(8)**

b) Explain infrared v/s radio transmission. **(8)**

OR

3. a) Explain link Manager protocol in detail also explain L2CAP **(8)**

b) Which standards are followed by Bluetooth discuss in brief? Also explain base band layer. **(8)**

Unit - IV

4. a) Define mobile IP? Discuss its goal and requirement of mobile IP. **(8)**

b) Discuss the terms Tunneling and encapsulation, reverse tunneling, and DHCP in brief **(8)**

OR

4. a) Explain mobile Adhoc network usage and routing in detail. **(8)**

b) Explain the concept of fast retransmit/fast recovery and transmission. **(8)**

Unit - V

5. a) Describe the file systems which support for mobility in wireless communication. **(8)**

b) Explain wireless datagram protocol and wireless transport layer security in detail. **(8)**

OR

5. a) Discuss the wireless application environment and markup language. **(8)**

b) Write short note on

i) Push / pull services.

ii) Wireless Session Protocol **(4×2=8)**
