

M.E. Second Semester (Computer Engineering) (Full Time) (C.G.S.)  
**13129 : Network Systems Design : 2 KMEF 1**

P. Pages : 2

Time : Three Hours



**AU - 3237**

Max. Marks : 80

- Notes : 1. Assume suitable data wherever necessary.  
2. Illustrate your answer necessary with the help of neat sketches.  
3. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Explain the need for requirement analysis. 7  
b) What are the performance characteristics services may include? Explain them. 7

**OR**

2. a) Explain various service requests and requirements. 7  
b) What are the various user requirements? Explain. 7  
3. a) What are the initial conditions for the start of the analysis process? Explain multitier and single tier performance. 7  
b) Explain how to develop RMA requirements. 6

**OR**

4. a) Why reliability block diagrams are constructed? Draw a sample RBD and explain in brief. 7  
b) Explain in brief user behavior and application behavior. 6  
5. a) What is flow prioritisation? Explain how flows are prioritised? 7  
b) Explain in brief functions of network management mechanism. 6

**OR**

6. a) Explain security mechanism for security component architecture. 7  
b) Explain Hierarchical client-server flow model. 6  
7. a) Explain how various addressing strategies are made and applied. 7  
b) Explain variable length subnetting with suitable examples. 7

**OR**

8. a) Explain how routing boundaries are identified and classified. 7  
b) Explain how routing protocols are chosen and applied. 7

9. a) Explain monitoring for event notification with suitable example. 7  
b) Explain in brief distributed and hierarchical management. 6

**OR**

10. a) Explain traffic flow for In-Band and out of Band management by giving suitable sketches. 7  
b) What is operation support system? Explain integration of network management with DSS. 6  
11. a) Explain the role of quality of service for the network performance mechanism. 7  
b) Explain in brief traffic management scheduling and queing. 6

**OR**

12. a) Explain in brief service level agreements. 7  
b) What are the goals for the network performance? Explain the problems addressed by the network performance architecture. 6

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