N. B.: (1) All questions are compulsory.

Attempt any two of the following:
Explain with suitable examples.

What is a summary route? In the context of static routing, how are summary routes usually with the path determination parameters in detail

tempt any two of the following:

Explain the difference between equal-cost and unequal-cost load sharing with the pof suitable examples.

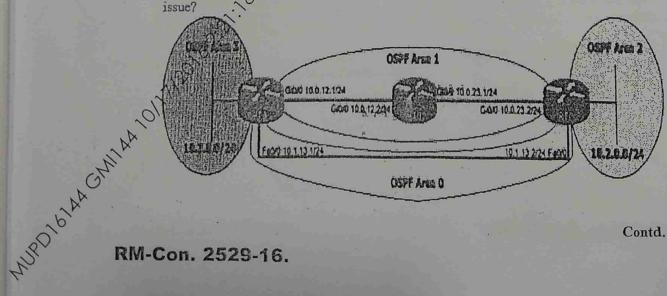
What is a summary route? In the context of static routing, how are summary routes used to provide connection-oriented any two of the following for to the commandal alculation.

Clashow i	-	-Kablah	1					
CIARDON 1	p ospi	Statist	103		a list	0.1		
	OSP	F Router	with ID	(11,100	.1.11) (	Ribcess	ID 100)	
Area 0:				d 2 times				
		SPF stat		-	100			
			18020		1/1			
SPF cal					1/1			
Delta T	Intra	D-Intra	Sueva	D-Summ	Ext	D-Ext	Total	Reason
AA - KE - KA	0	0	0	0 /	0	0	0	R, SM, X
00:05:12								
00:05:12	0	0	0	O VX	0	0	0	R, SN, X

Explain the factors having the biggest influence on OSPF scalability?

Explain the OSPF LSA types which are flooded within the originating area.

d. You have performed multiple changes to your OSPF configuration. After these changes, you receive a lot of this from users in OSPF area 2 complaining about application performance issues when they access servers connected to area 3. When you check the routing table of redter RTC, you notice that packets to network 10.3.3.0/24 are sent out via the slower path out of the Fa0/0 interface. Explain the action you can do to solve this



Contd...

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as data-bened on the network. Which three BGP attributes that the lights out of the following:

and the following:

the pinks M and PLM—DM.

The pinks are the following:

Explain the scaling of Aggregation Layer an Data-center ph.

Attempt any two of the following:

Explain SAN exponent?

Explain SAN exponent?

Explain SSL VPN implementation.

(21/2 hours)

Total Marks: 60

N. B.:	: (1) All questions are compulsory.	
	(2) Make suitable assumptions wherever necessary and state the assumptions made.	
	(3) Answers to the <u>same question</u> must be <u>written together</u> .	1
	(4) Numbers to the right indicate marks.	K
	(5) Draw neat labeled diagrams wherever necessary.	-
	(6) Use of Non-programmable calculators is allowed.	
1.	Attempt any two of the following:	12
	Explain the different location dependent services.	
(h)	Explain Space division multiplexing and code division multiplexing.	
a b 0 d	Discuss the advantages and disadvantages of cellular systems with small cells.	
9	Discuss the problem of near and far terminals.	
(1)	Discuss the problem of fical and far terminatis.	
2	Attampt and the of the followings	12
2.	Attempt <u>any two</u> of the following:  Explain the GSM TDMA frame, slots and bursts.	
a.	With the help of a neat diagram explain the GPRS transmission plane protocol	
b.	reference model.	
c.	What are the five groups of radio access technologies standardised by ITU? Explain	
	each in brief.	
d.	Explain localisation and handovers in satellites.	
	The second secon	
3.	Attempt any two of the following:	12
	What are design goals for commercial success of wireless LAN? Explain.	
а. b.	Explain the concept of DFWMAC-DCF using CSMA/CA and RTS/CTS.	
	Explain the architecture of Bluetooth.	
C.	Explain the format of IEEE 802.11 physical frame format using FHSS.	
u.	Explain the format of fixed over 1 problem hand format using 1 1100.	
4.	Attempt any two of the following:	12
a.	What is Mobile-Quality of Service? What are its different parts? What are the two types	14
a.	of services supported by wikeless ATM during handover?	
12		
	Explain IP-in-IP encaps (Itina)	
c.	With the help of a near diagram explain the architecture of hierarchical mobile IP.	
d.	With the help of a near diagram explain the agent discovery packet.	
_	Attack A S. S. S. S. Warning	
	Attempt any two of the following:	12
а b.	What is snooping TCP? How does it work? What are its advantages and disadvantages?	
	Discuss the problems faced by the web applications in mobile and wireless	
	environ int.	
C.	What is selective retransmission? What are its advantages and disadvantages?	
d.	Explain the WAP 1.x logical architecture.	
-	0, 114 41 41	
0		
1/3		
21		

NIPOTOTA RM-Con. 1124-16.

Ob Code: 1220

Total Marks: 60

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. Explain High Performance Computing(HPC) and High Throughput Computing(HPC) and their applications. Explain the design issues in Clustering. What is utility computing? Give examples of utility computing in existence b. State Amdahl's Law. What is the problem with fixed load? How is it overcome? C. w. 12 Attempt any two of the following: 2. Explain public, private and hybrid clouds with examples. Ca. With the help of a diagram explain the generic cloud architecture. Discuss the virtualization support in Windows Azure, Amazon Web Service and b. C. Google App Engine. Discuss the Quality of Service factors for clouds. 12 Attempt any two of the following: Explain the service offerings of any three majorrelleud platforms. Write a brief note on the interaction of Virtual Machine Managers for cloud creation and management. Describe the architecture of MapReduce in Hadoop. Enlist the techniques related to security, privacy, and availability requirements for -th developing a healthy and dependable bloud programming environment. 12 Attempt any two of the following: 4. With the help of a neat diagraffi, explain Google File System. va. Explain the following: i) Amazon Elastic Blog Store. ii) Amazon Simple DB service. Write a note on the Wimbus cloud infrastructure. C. What are the advantages of Aneka over other distributed workload solutions? What are the three types of capabilities offered by Aneka to build, accelerate and manage clouds and its applications? 12 Attempt any two of the following: What is Magellen? What are the research issues addressed by it? Los and explain the properties of social network graph. Explain the different application domains of social networks. Compare the programmer's perspective of Data-intensive scalable computing and conventional supper computer.

(21/2 hours)

QP Code: 75980

(2½ hours)

Total Marks: 60

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

Attempt any two of the following: Q1

PQR College is A graded college. It has five departments. The departments are headed by senior most and qualified faculty. The placement of final year saidents from all branches is managed by placement center. Placement center smanaged by one of the faculty from any department. The teaching load of that faculty is zero. To assist placement center head, there are placement secretaries (whose teaching load is 13) from each department along with placement assistance from students (selected by placement center) of all five departments

Placement center is responsible for on-campus and off-campus recruitment of students. The placement process requires students resume and relevant documents along with the approval from the placement center. Companies invited on campus conduct tests followed by interviews. The criteria of selection depend on academic performance and interview. For off-campus placements, placement center head must accompany students to the venue.

Draw enhanced entity relationship diagram.

ii. Draw class diagram.

Write 5 suitable queries in OQL Explain Hierarchies and Lattices with respect to EER diagram.

What are the constraints on Specialization and Generalization? Explain with

Explain attribute inheritance and relationship inheritance.

Attempt any two of the following: Q2

State and explain the sules of OODBMS. a.

b. Explain the following with respect to object query language: Views and Named Queries, Collection Operators, Grouping Operators.

Discuss the implementation issues for extended type systems.

Explain how a persistent pointer is implemented. Contrast this implementation A. with that of pointers as they exist in general purpose languages, such as C or C++.

Contd...

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12

JPD 16 14 A CHI AA 10 12 120 16 2:30