Time: 2:30 hrs

Note: - 1)All questions are compulsory.

2) Draw diagram if necessary.

Q.1	[A]	Explain OSI model in detail.	[8]
	[B]	Explain ECS in detail	[7]

OR

Q.1	[P]	Explain SCM and Financial management softwares.	[8]
	[Q]	Explain with example vlookup function	[7]

Q.2	[A]	Explain server base and Client-Server based networks.	[8]
	[B]	What is DBMS? What are its advantages?	[7]

OR

Q.2	[P]	Explain MIS and TPS in short.	[8]
	[Q]	Explain IDS and SSL in short.	[7]

Q.3	[A]	What is VSAT? What are it's Advantages and disadvantages.	[8]
	[B]	Explain Word processing and Spreadsheet softwares .	[7]

OR

Q.3	[P]	Define E-banking. Write any three services covered under E-banking.	[8]
	[Q]	What is information system? Explain AI system.	[7]

Q.4	[A]	Explain Intranet and Extranet.	[8]
	[B]	Explain in short HTTP,FTP, SMTP and POP protocols.	[7]

OR

Q.4	[P]	What is M-Commerce? What are its advantages and disadvantages?	[8]
	[Q]	Explain PV,FV,PMT,NPER.	[7]

Q.5		Write Short notes on.(Any 3)	[15]
	i	E-mails	
	ii	Firewalls	
	iii	Advantages of Networking	
	iv	DML queries	
	v	Internet banking in india.	