

Total Marks:80

Duration:3Hrs.

- N.B.:1) Question No.1 is **compulsory**.  
 2) Attempt **any three** from remaining 5 questions.  
 3) Draw the **relevant** diagram neatly.

- 
- 1.a) Explain benefits of storage virtualization. (05)  
 b) Which components constitute the disk service time? Which one contributes largest percentage? (05)  
 c) Compare DAS, NAS, SAN technologies. (05)  
 d) Benefits of Content Address Storage? (05)
- 2.a) Current configuration is RAID 0 with 6 disks of 200GB capacity each and total file size is 900GB. Amount of data likely to increase by 30% over next six month with 40% writes and a new 200GB disk drive cost is Rs.3000.What is cost of new solution? Justify your choice based on cost, performance & data availability. (10)  
 b) State the issues of manual and automatic indexing. (10)
- 3.a Differentiate restoration process in incremental and cumulative backups. (10)  
 b) Explain copy on write technology. (10)
- 4.a) List and explain the two primary protocols available for transmitting storage data traffic over TECP/IP. (10)  
 b) What are the advantages and disadvantages of controlled vocabulary? (10)
- 5.a) Explain benefits of NAS and factors affecting on NAS performance. (10)  
 b) Explain probabilistic matching process in detail. (10)
- 6 . Write short note on (any two) (20)  
 a) Single point failure.  
 b) Ectosystem & Endosystem  
 c) Fibre Channel ports
-