

FACULTY OF INFORMATICS

B.E. 4/4 (IT) II – Semester (Main) Examination, May / June 2015

Subject : Information Storage and Management (Elective-IV)

Time : 3 Hours

Max. Marks: 75

Note: Answer all questions of Part - A and answer any five questions from Part-B.

PART – A (25 Marks)

- 1 What are the challenges in Data Management? (2)
- 2 Give the requirements of Data Center elements. (3)
- 3 What are the components of storage system environment? (2)
- 4 Explain the benefits of LVM. (2)
- 5 Explain components of SAN. (3)
- 6 Differentiate Integrated NAS and Gateway NAS. (2)
- 7 Explain Backup Topologies. (3)
- 8 What is host based Replication (Remote)? (3)
- 9 How can we secure of BURA? (2)
- 10 Explain the purpose of (3)
(a) E-port (b) NL-port (c) N-port

PART – B (50 Marks)

- 11 Explain in detail about Information life cycle management Implementation and Benefits. (10)
- 12 (a) Describe physical components of disk drive and their functions. (5)
(b) Describe Logical partitioning of physical drives. (5)
- 13 Explain the significance of RAID Technology by using all RAID levels. (10)
- 14 Explain the features and benefits of CAS solutions. (10)
- 15 Explain BC planning lifecycle and BC technology solutions. (10)
- 16 Explain the Techniques used for Local Replication. (10)
- 17 What is virtualization? Explain the forms of virtualization in detail. (10)

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B.E. 4/4 (I.T.) II – Semester (Main) Examination, May / June 2015

Subject: Information Retrieval Systems (Elective – IV)

Time: 3 Hours

Max.Marks: 75

Note: Answer all questions from Part A. Answer any five questions from Part B.**PART – A (25 Marks)**

- | | | |
|----|---|---|
| 1 | Define information retrieval model | 2 |
| 2 | What is TREC? | 2 |
| 3 | What is association cluster? | 2 |
| 4 | Define entropy of statistical methods of text compression | 3 |
| 5 | How query can be expanded based on statistical thesaurus | 3 |
| 6 | What is the objective of the compression method? List out the different compression methods | 3 |
| 7 | Define Inverted File | 2 |
| 8 | What is query syntax tree? Give an example. | 3 |
| 9 | Define rank search | 2 |
| 10 | How query is processed in Distributed Information Retrieval? | 3 |

PART – B (5x10 = 50 Marks)

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|----|--|---|
| 11 | a) Explain the retrieval process in detail. | 6 |
| | b) What is vector model? | 4 |
| 12 | a) Explain different models for browsing. | 6 |
| | b) What are the different query protocols? | 4 |
| 13 | a) What is the user relevance feedback? Explain. | 6 |
| | b) Explain Information Theory. | 4 |
| 14 | a) What are the different statistical methods in text compression. | 7 |
| | b) What is signature file. | 3 |
| 15 | a) How string matching is done based on dynamic programming. | 6 |
| | b) Explain collection partitioning in distributed IR. | 4 |
| 16 | a) What is an inverted file. | 3 |
| | b) Explain other indices for text searching. | 7 |
| 17 | Write short notes on: | |
| | a) Recall and precision | 4 |
| | b) Probabilistic model | 3 |
| | c) Parallel IR | 3 |
