

Time: 3 Hours**Max.Marks:75****Note:** i) Question paper consists of Part A, Part B.

ii) Part A is compulsory, which carries 25 marks. In Part A, Answer all questions.

iii) In Part B, Answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART – A**(25 Marks)**

- 1.a) Define the term Grid Computing. Explain how grid computing is different from cluster computing. [5]
- b) What is meant by cloud computing? Explain the need for cloud computing. [5]
- c) Give a brief insight on the anatomy of the cloud. [5]
- d) Provide the characteristics of PaaS. [5]
- e) Briefly describe the cloud features supported by EMC. [5]

PART – B**(50 Marks)**

2. Write a brief description on various types of computing environment and provide the pros and cons of each computing environment. [10]

OR

- 3.a) How does a power grid differs from a data grid and computational grid?
- b) Explain the main motivation and principles of Quantum computing in detail. [4+6]

4. Describe the five essential characteristics of cloud computing by stating any one application for each. [10]

OR

- 5.a) Mention the advantages and disadvantages of cloud computing.
- b) Explain the principles of cloud computing. [5+5]

6. State the benefits of migrating IT enterprise applications, environments from the traditional hosting environment to the cloud environment and explain various phases of cloud migration. [10]

OR

- 7.a) What is public cloud access networking? Explain in detail.
- b) Explain the role of network connectivity in the cloud. [5+5]

- 8.a) Mention the pros and cons of the Infrastructure as a Service.
- b) Provide a brief summary of PaaS providers. [5+5]

OR

- 9.a) Write down the characteristics of Software as a Service cloud model.
- b) “PaaS changes the way that the software is developed and deployed”. Justify your answer. [5+5]

- 10.a) Explain various cloud computing services provided by Google App Engine.
- b) Give an overviews of SaaS provision extended by Salesforce. [5+5]

OR

- 11.a) Explain SAP HANA cloud services in brief.
- b) What do you mean by Knowledge as a Service? Explain in brief. [5+5]

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