C 460A1 Total Pages: 2

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SAINTGITS COLLEGE OF ENGINEERING (AUTONOMOUS)

(AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY, THIRUVANANTHAPURAM)

FIRST SEMESTER M.TECH DEGREE EXAMINATION (Regular), DECEMBER 2023

COMPUTER SCIENCE AND SYSTEMS ENGINEERING

(2021 Scheme)

Course Code: 21SE103

Course Name: Distributed Systems and Advanced Computing

Max. Marks: 60 Duration: 3 Hours

PART A

(Answer all questions. Each question carries 3 marks)

- 1. What is distributed object?
- 2. List out the uses of Hadoop.
- 3. Write notes on data node and name node.
- 4. Determine the characteristics that define cloud data, infrastructure and application services.
- 5. What are the application areas of Devstack?
- 6. Define Open Stack. List out the components of Open Stack.
- 7. Elucidate the concept of Neutron.
- 8. Describe keystone.

PART B

(Answer one full question from each module, each question carries 6 marks)

MODULE I

9. Explain the different Distributed Computing Systems.

(6)

OR

10. Summarize the centralized architectures.

(6)

MODULE II

11. Discuss the Hadoop Eco-System in detail.

(6)

OR

12. Explain the following HDFS concepts:

(6)

- i) HDFS Availability
- ii) HDFS Federation
- iii) HDFS Block caching

OR

20. Summarize the features of Open Stack Networking (6)
