(FOR THE CANDIDATES ADMITTED   SUBJECT CODE 21 UCT 5E1

DURING THE ACADEMIC YEAR 2021-22 ONLY)   REG.NO. [   ]

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : NOVEMBER – 2023

B.Sc. – COMPUTER TECHNOLOGY   MAXIMUM MARKS: 70

V SEMESTER   TIME : 3 HOURS

PART – III

CLOUD COMPUTING

SECTION – A   (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

1. Cloud computing is a kind of abstraction which is based on the notion of combining physical resources and represents them as _____resources to users.
   a) Real   b) Cloud   c) Virtual   d) none of the mentioned

2. Which one of the following options can be considered as the Cloud?
   a) Hadoop   b) Intranet   c) Web Applications   d) All of the mentioned

3. _____measures the number of operations performed by the name-node per second.
   a) MapReduce   b) Hadoop Benchmark
   c) MapReduce Benchmark   d) Prototyping

4. _____ is a test of a cloud environment, typically conducted by an independent third-party.
   a) Data security   b) Key Management
   c) Access Management   d) Cloud Auditing

5. What is the full form of AWS?
   a) Amazon web-based service   b) Amazon web-store service
   c) Amazon web service   d) Amazon web-data service

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

6. What do you mean by MapReduce?

7. What is cloud setup?

8. What is load testing in cloud computing?

9. What is cloud data security?

10. What is the use of Windows Azure?

SECTION – B   (5 X 4 = 20 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.

11.   a)   Describe the Network Function Virtualization.

(OR)
      b)   What is load balancing in cloud computing?

12.   a)   Write a short note on cloud content delivery services.
(OR)
      b)   What are the cloud deployment and management services?

13.   a)   What are the cloud workload characteristics?

(OR)
      b)   What are the cloud application performance metrics?

14.   a)   Write a short note on key management in cloud security.

(OR)
      b)   Describe the transportation systems in cloud computing.

15.   a)   Describe the Google platform.
(OR)
      b)   Write a short note on AWS.

SECTION – C   (4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS
(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS.

16.   Write a short note on the following Cloud-based services and applications:
      a)   Cloud Computing for Healthcare   b)   Cloud Computing for Energy Systems

17.   What are the models of cloud computing? Discuss.

18.   Discuss the Hadoop schedulers in detail.

19.   Explain the Reference architectures for cloud applications in detail.

20.   Explain the Cloud Security Architecture in detail.

21.   Discuss the Web Application Framework in detail.

ETHICAL PAPER   *******