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20UCS5E2

FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2020 ONLY) **REG.NO**

NGM COLLEGE (AUTONOMOUS) POLLACHI

END-OF-SEMESTER EXAMINATIONS: DECEMBER-2022

B. Sc-Computer Science (Aided) **MAXIMUM MARKS: 70**

V SEMESTER **TIME: 3 HOURS**

PART III

DISTRIBUTED COMPUTING

SECTION – A (10 X1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS
MULTIPLE CHOICE QUESTIONS **(K1)**

1. A glue between client and server parts of application _____
   a) middleware b) firmware c) package d) system software

2. Internet provides _____ for remote login.
   a) telnet b) http c) ftp d) rpc

3. Distributed system consists of set of resource _____
   a) printer b) processor c) CD d) processes

4. RMI stands for_____
   a) Remote Mail Invocation b) Remote Model Invocation
   c) Remote Main Invocation d) Remote Method Invocation

5. A distributed database has which of the following advantages over a centralized database?
   a) Software cost b) Software complexity
   c) Slow response d) modular growth

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES **(K2)**

6. What is client – server?
7. Define workstation.
8. What is load balancing.
9. Outline the steps of configuring a client / server network model.
10. List the types of DBMS products.

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SECTION – B (5 X 4 = 20 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Describe computer clusters.

(OR)

b) Examine grid computing

12. a) Discover characteristics of distributed computing.

(OR)

b) Describe message switching and circuit switching.

13. a) Explain peer – to – peer network.

(OR)

b) Compare load balancing vs load shading.

14. a) List the types of server in distributed computing.

(OR)

b) Assess the characteristics of client / server model.

15. a) Discover advantages and limitations in distributed database.

(OR)

b) Levels of transparency – Describe.

SECTION –C (4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS

(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS)

(FROM Qn. No : 17 to 21) (K4 (or) K5)

16. Outline of 3 – tier architecture.

17. Evaluate advantages and disadvantages of distributed system.

18. Categorize top down approach and bottom up approach.

19. Describe the classification of load distributing algorithms.

20. Construct architecture of client and server network model.

21. Features of distributed file system – Summarize.