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(FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR 2020 ONLY)

20 UBC 5E2

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : 2022

COURSE NAME: BCA **MAXIMUM MARKS: 70**

SEMESTER: V **TIME : 3 HOURS**

PART - III

GRID COMPUTING

SECTION - A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS. **(K1)**

1. Which of the following is NOT a result of Grid Computing?
   A) Parallel Processing B) Task Division
   C) Less Hardware D) Time Savings

2. Grid Computing originated in year_____.
   A) 1990s B) 1970s C) 1980s D) 1968s

3. Which of the following is not a core layer in Web Service Protocol Stack?
   A) Service Transport B) XML Messaging C) Service Description D) Service Locator

4. ___ provides a uniform way to describe grid services and defines a common pattern of behavior for all grid service.
   A) OGSA B) OGSI C) NFS D) CDC

5. Which of the following is a type of architecture used in the computers nowadays?
   A) Micro architecture B) Harvard Architecture
   C) Von-Neumann Architecture D) System Design

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

6. Is grid computing suitable for high throughput or high performance? Interpret your answer.
7. Define grid system.
8. Construct the layers of grid architecture.
9. Illustrate grid computing tool kits and frameworks.
10. Explain OGSA in grid computing.

SECTION – B (5 X 4 = 20 MARKS)

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

11. a) List and explain the types of grids.

(OR)

b) Show the applications of grid computing.

12. a) Interpret time complexity of grid computing network.

(OR)

b) Examine the best middle wares for grid computing.

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13.a) Describe Web Services.

(OR)

b) Examine SOA Design and Development.

14. a) List the OGSA grid service interfaces.

(OR)

b) Describe

i) OGSA Service
ii) Metering Service

15. a) Find an example of XML file of a grid computing security policy.

(OR)

b) Show the costs and benefits of operating Monte-Carlo and Grid-Computing in Finance for Corporate Performance Management.

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. Analyse service-oriented architecture (SOA).

17. Examine view. Create a simple grid view application.

18. Interpret and explain the Key Components of Grid Computing.

19. Evaluate the structure of SOAP message and justify that transport of XML messages in an envelope SOAP by means of HTTP protocol .

20. Summarise and explain the Open Grid Services Architecture Platform.

21. Discuss the Common Management Model (CMM)..

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