

# **SIXTH SEMESTER EXAMINATION 2021-22**

**Class - B.C.A.**

**Subject - Current Trends & Technology  
in Computer Science**

Time : 2.30 Hrs.

Max. Marks : 80

Total No. of Printed Page : 05

Mini. Marks : 28

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**Note:** Question paper is divided into three sections. Attempt question of all three section as per direction. Distribution of Marks is given in each section.

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## **Section - 'A'**

**Attempt two questions from each unit.**

**Very short answer questions. (word limit 30 words)**

**10x2=20**

### **Unit - I**

1. What do you understand by Grid computing ?
2. Write the Benefits of cloud computing.
3. Define cluster.

### **Unit - II**

4. What do you mean by web services ?
5. Write the types of Grid computing ?
6. What is WSRF ?

(2)

### **Unit - III**

7. What do you mean by Grid monitoring ?
8. What is Grid ICE ?
9. What is R-GMA service ?

### **Unit - IV**

10. What is the Role of clusters ?
11. Define cluster computing ?
12. What is Parallel computing ?

### **Unit - V**

13. What is cloud computing ?
14. What do you mean by Saas in cloud computing ?
15. Write the difference between IaaS and PaaS.

### **Section - 'B'**

**Attempt all questions.**

**Short Answer Question (Word limit 60 words)**

**5x6=30**

### **Unit - I**

16. Explain features of Grid and Clpttoplatform.

OR

(3)

Explain service oriented software.

## **Unit - II**

17. Explain Grid Architecture and service modeling.

OR

Explain Grid Application trends in brief.

## **Unit - III**

18. Explain Grid Monitoring Architecture (GMA).

OR

Explain Ganglia and Grid M.

## **Unit - IV**

19. Explain Node Hardware and Node Software.

OR

What is distributed programming ? Write it's limitations.

## **Unit - V**

20. Explain pros and cons of cloud computing.

(4)

OR

Explain virtualization characteristics.

### **Section - 'C'**

**Attempt any two questions.**

**Long answer question (word limit 120 words.)**

**2x15=30**

#### **Unit - I**

21. Differentiate the following :
- (i) Grid computing and cloud computing
  - (ii) Parallel and distributed programming models.

#### **Unit - II**

22. Explain Review of web services - OGSA-WSRF.

#### **Unit - III**

23. Explain the following :
- (i) JAMM-MDS-Network
  - (ii) Overviews of Grid monitoring system

#### **Unit - IV**

24. Write brief notes on the following :

(5)

- (i) Taxonomy of parallel computing
- (ii) Cluster planning

## **Unit - V**

25. Explain features of cloud computing architectures and simple case studies.

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