G 1721 (Pages : 2) Reg. No.....

Name.....

B.TECH. DEGREE EXAMINATION, MAY 2016

Eighth Semester

Branch : Computer Science and Engineering/Information Technology

CS 010 804 L02/IT 010 804 L06—GRID COMPUTING (Elective III) (CS/IT)

(New Scheme—2010 Admission onwards)

[Regular/Supplementary]

Time : Three Hours Maximum : 100 Marks

Part A

Answer **all** *questions.*
Each question carries 3 *marks.*

1. List any *three* advantages of grid computing.
2. Explain the basic goals of Global Grid Forum (GGF).
3. Explain the fundamental components of SOAP specification.
4. Explain the major goals of OGSA.
5. What are the high level services included in Globus toolkit ?

(5 × 3 = 15 marks)

Part B

Answer **all** *questions.*
Each question carries 5 *marks.*

6. What are the features of data grids ?
7. Explain the concept of virtual organizations.
8. Write a note on web service description language.
9. Explain the layered model of OGSI.
10. Discuss about the index services available in GT3.

(5 × 5 = 25 marks)

Part C

Answer **all** *questions.*
Each full question carries 12 *marks.*

11. Explain various grid applications.

Or

Turn over

12. Write a note on :

(i) Resource broker. (4 mar

(ii) Load balancing. (4 mar

(iii) Grid portals. (4 mar

13. With the help of a neat diagram explain layered grid architecture.

Or

14. Write a note on :

(i) Business on demand. (6 marl

(ii) Semantic grids. (6 marl

15. Briefly explain web service architecture.

Or

16. Draw and explain the general framework for enabling interaction between multiple grid syste based on web services.

17. Explain briefly about CMM (Common Management Model).

Or

18. Discuss OGSA platform components with neat diagrams.

19. Describe the components of the GT3 software framework.

Or

20. (a) What type of scheduling is used in GT3 ? (6 mark

(b) Describe the resource management services provided by GT3. (6 mark

(5 × 12 = 60 mark