

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2018
(Fifth Semester)

Branch - INFORMATION TECHNOLOGY

CORE ELECTIVE -1 GRID COMPUTING

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 x 2 = 20)

- 1 Define grid resource brokers.
- 2 Mention the common needs of grid applications.
3. Define dynamic accounting system.
- 4 What is meant by delegation?
- 5 What are the major building blocks identified by GXA?
- 6 What are the WS - Security specification addresses?
- 7 What are the more specific goals of OGSA?
- 8 What are the main purpose of use cases defined by the OGSA group?
- 9 Define pivot handler.
- 10 What are the features of grid service container?

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Explain about virtual organization in detail.
OR
b Explain about schedulers in detail.
- 12 a Explain the global grid forum.
OR
b Differentiate condor from condor - G.
- 13 a Discuss about global XML architecture vision in detail.
OR
b Discuss about web service and grid service in detail.
- 14 a Explain briefly about grid services.
OR
b Illustrate the service fault handling in OGSI.
- 15 a Describe the common server side handlers.
OR
b Describe in brief about service programming model.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Write about the scope of grid computing in business areas.
- 17 Explain the layered architecture of grid with a neat diagram.
- 18 Explain about SOAP in detail.
- 19 Describe the OGSA platform components and write note on each of them.
- 20 Explain the architecture of globus GT3 toolkit with a neat diagram.