# PSG COLLEGE OF ARTS & SCIENCE
## (AUTONOMOUS)
### BSc DEGREE EXAMINATION DECEMBER 2017
(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          ( 1 0 x 2  = 20)

1    What is a grid?
2    List some of the QOS features available in grid computing.
3    What is semantic grid?
4    What are the basic goals of GGF?
5    Define web service.
6    What are the features of SOAP?
7    What are the major goals of OGSA?
8    Write the service data attributes.
9    Define pivot table.
10   What is a stateful web service?

### SECTION - B (25 Marks)
Answer **ALL** Questions
**ALL** Questions Carry **EQUAL** Marks ( 5 x 5  = 25)

11  a   Explain some of the grid application and their usage patterns.
                          OR
    b   Write short note on : (i) Load balancing (ii) Grid portals.

12  a   Write notes on organizations developing grid computing tool kits frame works.
                          OR
    b   Explain the service oriented architecture and grid.

13  a   What are the service message description mechanisms available? Explain.
                          OR
    b   Explain briefly about WSDL.

14  a   Explain briefly about life cycle grid of a service instance.
                          OR
    b   Explain briefly about commercial data centre.

15  a   Describe in detail about advanced service data concepts.
                          OR
    b   Write notes on common distributed logging.

### SECTION - C (30 Marks)
Answer any **THREE** Questions
**ALL** Questions Carry **EQUAL** Marks ( 3 x 1 0  = 30)

16   Explain briefly about grid infrastructure.

17   Discuss briefly about organization building and using grid based solution to solve their computing data and network requirements.

18   Explain briefly about web service architecture.

19   Describe the OGSA platform components? Write note on each of them.

20   Describe the domain policy architecture.