

**PSG COLLEGE OF ARTS & SCIENCE**  
(AUTONOMOUS)  
**BCA DEGREE EXAMINATION DECEMBER 2018**  
(Fifth Semester)

**Branch - COMPUTER APPLICATIONS**

**SOFTWARE ENGINEERING AND TESTING**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 Define system.
- 2 What do you mean by software process?
- 3 What are the factors to be considered for architectural design?
- 4 What is the difference between rapid s/w development and water fall method?
- 5 Define Testing.
- 6 Explain verification and validation.
- 7 What do you mean by functional testing?
- 8 What is Beta testing and Alpha testing?
- 9 What are meaning factors of s/w quality?
- 10 How to manage a software?

**SECTION - B (25 Marks)**

Answer ALL Questions

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

- 11 a Expound on S/W process management.  
OR  
b How will you manage a project?
- 12 a Discuss on S/W architecture.  
OR  
b Write short notes on S/W reuse.
- 13 a What do you mean by Integration on testing? Explain the concept.  
OR  
b Elucidate on Black box testing.
- 14 a What do you mean by non functional testing? How will you do it?  
OR  
b Explain about system testing.
- 15 a Write a short notes on software quality management.  
OR  
b Who are all the people involved in S/W management and how will you manage people.

**SECTION - C (30 Marks)**

Answer any THREE Questions

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

- 16 Discuss on S/W requirement analysis and requirement engineering processes.
- 17 Give a detailed note on rapid software development method.
- 18 Expound on white Box Testing.
- 19 Write short notes on performance Testing.
- 20 What is the importance of cost estimation? Explain about software cost estimation