

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
BCA/ IMCA Summer 2017 – 18 Examination

Semester: 4**Subject Code: 05101253 / 05301253****Subject Name: Basic Software Engineering****Date: 23/05/2018****Time: 10:30AM TO 01:00PM****Total Marks: 60****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Answer the followings.**A. Write short notes.****(05)**

1. Define Information system.
2. Give full forms for following:
DSS, MIS, TPS
3. Write short note on Big-bang model.
4. Why is Design an essential part of Software development?
5. List out the Software Design Strategies.

B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks)**(10)**

1. A _____ solves business problems by using information system technology.
2. SQA focuses on _____ while SQC focuses on _____.
3. The _____ is the official statement of what is required to the system developers.
4. Object oriented design strategy falls under _____ approach.
5. Level of formality is highest in _____.
6. An operation can be described as?
 - a) Object behavior
 - b) Class behavior
 - c) Functions
 - d) Object & Class behavior
7. Oldest paradigm for software engineering is:
 - a) Spiral model
 - b) Waterfall model
 - c) V-model
 - d) None of above
8. Target(s) of testing is/are:
 - a) Finding error
 - b) Debugging
 - c) Both of them
 - d) None of them
9. Execution is required in static testing. (True/False)
10. A system with high coupling & low cohesion belongs to good structured design. (True/False)

Q.2 Answer the followings. (3 Mark Questions)**(15)**

1. Compare SQA and SQC.
2. Define Class diagram? Write benefits of it.
3. What is product documentation? Explain system and user documentation.
4. Define jobs of a programmer analyst and system designer.
5. Define the categories of software process documentation.

Q.3 Answer the following. (Any three)**(15)**

1. Write down the qualities of System Analyst.
2. Define fact gathering techniques.
3. Explain Spiral model and V-model in detail.
4. What is software documentation? List down and explain its components.

Q.4 Answer the following.**A. Explain levels of Dynamic testing.****(05)****B. a) Draw an Activity diagram for a Wedding Planner with brief explanation.****(10)**

- b) What is Code inspection and Code review, explain. Why do we need them?

OR

B. a) Draw a Sequence diagram for admitting a patient to the hospital.**(10)**

- b) Explain White-box, Black-box and Grey-box testing techniques.