

SEAT No. _____

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SARDAR PATEL UNIVERSITY
B.Sc (SEMESTER – VI) EXAMINATION : JULY-2021
COMPUTER SCIENCE

US06CCSC24: Software Engineering & Introduction to SASD

Date: 19/07/2021, Monday

Time: 10:00am to 12:00Noon

Max. Marks: 70

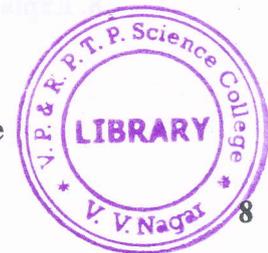
Q.1 Multiple choice of Question:

10

1. _____ model reduce the first two limitations of Waterfall model.
A. Spiral B. Prototype C. Iterative Enhancement D. Waterfall
2. Efficiency and Reliability are measured on which dimension of Quality control.
A. Product Transition B. Product Usability
C. Product Operation D. Product Revision
3. KDLOC means _____.
A. Kilogram Developed Line of Code B. Kilogram Delivered Local Code
C. Thousands Delivered Local Code D. Thousands Delivered Line of Code
4. The Gantt chart is used for _____ method to display activities.
A. Earn value method B. Review C. UDF D. SRS
5. The form which can be filled up daily or weekly to maintain monitoring and plan activity are known as _____.
A. UDF B. Time sheets C. Cost Schedule Milestone graph D. Reviews
6. The structural approach is sometimes called? White box testing.
A. glass-box testing B. Graph testing
C. regression testing D. Black-box testing
7. The single-entry, single-exit constructs are also called.
A. control constructs B. iteration constructs
C. selection constructs D. None of these
8. The information hiding principle in modern programming languages by ____.
A. data-hiding B. encapsulation C. data-abstraction D. inheritance
9. The activity that makes possible the transformation of input to output is called _____.
A. output B. goal C. input D. process
10. _____ system is an example of Natural system.
A. solar B. information C. business D. defense

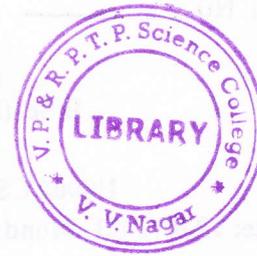
Q.2 Fillup the blanks or True/False.

1. _____ is the second step of design phase.
2. _____ part requires major efforts.
3. _____ is the method to identify the Risk
4. (SQAP) means _____.
5. A failure is produced only when there is a fault in the system. [True / False]
6. Errors refer to the difference between actual output of software and the correct output. [True / False]
7. information system is an example of man-machine system. [True / False]
8. The inter connection & interactions between the subsystem are termed as interface. [True / False]



(1)

(P.T.O.)



Q.3 Answer the following questions in SHORT (Any 10):

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1. Define: Software Project.
2. Define: Software Engineering.
3. Explain advantages of spiral model.
4. List down at least 8 variables of COCOMO model.
5. Justify : "Now a day a more importance is given to SRS instead of design and coding."
6. Explain Projections.
7. Define: Module and Modular System.
8. Differentiate between System design and Detailed design.
9. Differentiate between Top-down and Bottom-up approaches.
10. Define system.
11. Draw the model of business system.
12. List characteristics of system.

Q.4 Answer the following questions in LONG (Any 4):

32

1. Explain waterfall model.
2. Explain phases of software development.
3. What is SRS? Explain needs and Components of SRS.
4. What is the importance of project monitoring plans? List the various methods for monitoring a project. Write in brief about any two of them.
5. What is system design? Explain how coupling and cohesion used.
6. Explain coding approach and programming style.
7. Explain the elements of system.
8. Explain the role of System Analyst.

— x —
(2)