

CS/BCA(N)/EVEN/SEM-2/BCAN-202(N)/2018-19



**MAULANA ABUL KALAM AZAD UNIVERSITY OF
TECHNOLOGY, WEST BENGAL**

Paper Code : BCAN-202(N)

SOFTWARE ENGINEERING

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own
words as far as practicable.*

GROUP - A

(Multiple Choice Type Questions)

I. Choose the correct alternatives for any *ten* of the following : 10 × 1 = 10

- i) SRS stand for
 - a) Software Requirement Specification
 - b) Software Requirement Solutions
 - c) System Requirement Specification
 - d) None of these.

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- ii) Waterfall model is not suitable for
- a) small projects
 - b) accommodating changes
 - c) complex project
 - d) none of these.
- iii) The nature of tasks of DSS is
- a) highly structured
 - b) semi-structured
 - c) unstructured
 - d) both (b) and (c).
- iv) Which phase is not available in Software life cycle ?
- a) Coding
 - b) Testing
 - c) Maintenance
 - d) Abstraction.
- v) MIS considers
- a) only qualitative factors
 - b) only quantitative factors
 - c) both (a) and (b)
 - d) none of these.
- vi) Regression testing is a major part of which of the following life cycle ?
- a) Waterfall model
 - b) V model
 - c) Iterative model
 - d) All of these.

- vii) Operational Feasibility examines
- a) cost related with the software development
 - b) whether the proposed method can fit in with existing operations
 - c) risk assessment
 - d) none of these.
- viii) Which level of DFD is also known as Context Level Diagram ?
- a) 1-level
 - b) 0-level
 - c) 2-level
 - d) None of these.
- ix) Cost benefit analysis is also known as
- a) Social feasibility
 - b) Technical feasibility
 - c) Economical feasibility
 - d) None of these.
- x) A decision table is
- a) a truth table
 - b) a table that facilitates taking decisions
 - c) a table listing conditions and actions to be taken based on the testing of conditions
 - d) a table in a decision support system.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. a) What is DFD ? Discuss different symbols used in DFD.

b) Differentiate between Logical DFD and Physical DFD.

c) Draw the E-R diagram showing the cardinality for the following problem :

A store has different counters managed by different employees. A counter has different items but no two counters have common items. Customer buys from different counters. Bills are prepared from bill counter only.

d) Explain generalization and specialization.

$3 + 2 + 6 + 4$

8. a) Distinguish between software verification and software validation. <http://www.makaut.com>

b) The discount policy has following conditions for the customers. If orders for 6 or more copies per book tile.

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If customer is from 'Libraries and individual' :

5% allowed on order of 6-19 copies per book title
10% on orders for 20 copies per book title and
15% on order for 50 copies per book title. Develop
a process description in N :

- i) Structured English
- ii) Decision Table
- iii) Decision Tree.

9. a) What are the functions of Quality Assurance Group (QAG) ?
- b) List five salient features for awarding the ISO 9001 certificate to a software development organization.
- c) Differentiate between ISO 9001 and CMM.
10. a) What is SRS and what should be the contents of SRS ?
- b) Explain Work Breakdown Structure with suitable diagram.
- c) What is activity network ? Explain with suitable diagram.

11. Write short notes on any *three* of the following : 3 × 5

- a) ERP
 - b) System testing
 - c) Decision table and decision tree
 - d) CRM
 - e) E-Business.
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