BCA(III) / 17 / 12

2012

Time : 3 hours

Full Marks : 80

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

*Answer from **both** the Groups as directed.*

Group – A

(Objective Type Questions)

Answer **all** questions :   2×10 = 20

1. Choose the correct answer of the following :

    (a) SQA stands for :

        (i)   Standard Quality Association

        (ii) Software Quality Assurance

        (iii) System Quantitative Alliance

        (iv) None of these

CX – 13/3   (Turn over)

(b) Alpha and Beta tests are useful to :

    (i) Accept the system

    (ii) Validate the system

    (iii) Foresee how the customer will use the system

    (iv) None of the above

(c) CASE stands for :

    (i) Computer Aided Software Entrance

    (ii) Computer Assisted Software Engineering

    (iii) Computer Aided Software Engineering

    (iv) None of the above

(d) What are three parts of a feasibility analysis ? (Choose three)

    (i) Legal feasibility

    (ii) Political feasibility

    (iii) Technical feasibility

    (iv) Economical feasibility

    (v) Environmental feasibility

(e) You are auditing current customer practices potentially amenable to software application(s). Which two should be part of the audit ? (Choose two)

    (i)   Identification of current logical system(s)

    (ii) Identification of current virtual system(s)

    (iii) Identification of current physical system(s)

    (iv) Identification of current corporate strategies

(f) Which type of risk factor is most likely to cause problems for a software project developing commercial software ?

    (i)   Inadequate user documentation

    (ii) Litigation expense

    (iii) Low productivity

    (iv) Cancellation of project

(g) Under software engineering SDLC stands for :

    (i)   System Description Life Cycle

    (ii) System Development Life Cycle

(iii) Software Development Life Cycle

(iv) None of the above

(h) "Prototype" is a :

(i) Design Tool

(ii) SRS Document

(iii) Life Cycle Model

(iv) None of the above

(i) "COCOMO" is a/an :

(i) Life Cycle Model

(ii) Analytical Tool

(iii) Estimation Model

(iv) None of the above

(j) Black Box & White Box are :

(i) Design Tools

(ii) Fact Finding Techniques

(iii) Testing Methods

(iv) None of the above

Group – B

(Long-answer Type Questions)

Answer any **four** questions :   15×4 = 60

2. Define software engineering. Explain types of software products.

3. Explain decompositions technique in details and define SQA.

4. Define Software Engineering Process and explain waterfall model.

5. Describe Software Project Management.

6. Describe Spiral Model in detail.

7. Explain Software Design and differentiate between Software Product and Software Process.

8. What are the difficulties in Elicitation ? What are the objectives of software engineering.

9. Explain Coupling and Cohension with example.

10. Describe alpha and beta testing. Explain interface testing.

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