(7 Pages)

Reg. No. : .....

Code No. : 20544 E **Sub. Code : JMCA 6 B/ SECA 6 B**

B.C.A. (CBCS) DEGREE EXAMINATION, APRIL 2021.

Sixth Semester

Computer Application

Major Elective – SOFTWARE PROJECT MANAGEMENT

(For those who joined in July 2016 onwards)

Time : Three hours Maximum : 75 marks

PART A — ($10 \times 1 = 10$ marks)

Answer ALL questions.

Choose the correct answer :

1. Two basic steps to build a program in water fall model is

   (a) Analysis and coding

   (b) Analysis and testing

   (c) Analysis and verification

   (d) Analysis and designing

2. Which one of the following is the parameter of software cost model?

(a) Size (b) Process

(c) Personnel (d) All of the above

3. Design of the software system as opposed to the design of a component is

(a) Architecture

(b) Architecture base line

(c) Architecture description

(d) None

4. WBS means

(a) Work Breakdown data Structure

(b) Work Breakdown Structure

(c) Work Breakup data Structure

(d) Work break up Structure

5. The authority facilitates the exchange of information and process guidance both to and from project practitioner

(a) SEPA (b) PRA

(c) SEEA (d) None

6. Which of the following is not activity of software development?

(a) Component design

(b) Component implementation

(c) Component testing

(d) Component planning

7. Which one of the following is not a project environment?

(a) Proto typing environment

(b) Maintenance environment

(c) Development environment

(d) Deployment environment

8. The term used to describe the key requirement for environments that support iterative development

(a) Round trip engineering

(b) Infra structure

(c) Change management

(d) None

9. The principle directly related to model based notation and objective quality control is

(a) Metric based scheduling and management

(b) Binary quality gates

(c) Configuration management

(d) Change management

10. Late risk resolution is resolved by emphasizing an

(a) Architecture second approach

(b) Architecture first approach

(c) Architecture third approach

(d) None

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Explain five necessary improvement approaches for water fall model.

Or

(b) Explain the five basic parameters of the software cost model.

12. (a) Explain the engineering and production phase of life cycle in detail.

Or

(b) Write a brief note on inception phase project life cycle.

13. (a) Mention the seven top level workflows.

Or

(b) Explain Iteration workflow in detail.

14. (a) Explain the project environment in detail.

Or

(b) Explain briefly about the basic component of SCO.

15. (a) Explain any two best practices of software management.

Or

(b) What are the characteristics of conventional software process?

PART C — ($5 \times 8 = 40$ marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the important trends in improving software economics.

Or

(b) Briefly explain the advantages and disadvantages of commercial components and custom software.

17. (a) Explain Construction Phase of Project Life Cycle in detail.

Or

(b) What are the primary objective of Transition stage of project life cycle.

18. (a) Estimate the cost and schedule estimating process in detail.

Or

(b) Mention the roles and responsibilities of the default line of business organization in detail.

19. (a) Explain the seven core metrics in detail.

Or

(b) Explain the Management Metrics in detail.

20. (a) Explain any three software management principles in detail.

Or

(b) Explain the engineering stage of Next generation cost model.

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