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B.Tech DEGREE EXAMINATION, NOVEMBER 2023

Seventh Semester

18MBH464J - IT PROJECT MANAGEMENT

(For the candidates admitted during the academic year 2020 - 2021 & 2021 - 2022)

Note:

- i. **Part - A** should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.
- ii. **Part - B** and **Part - C** should be answered in answer booklet.

Time: 3 Hours

Max. Marks: 100

PART - A (20 × 1 = 20 Marks)

Answer all Questions

	Marks	BL	CO
1. Software is defined as _____ (A) set of programs (C) documentation and configuration of data (B) development (D) positive Integers	1	1	1
2. What is Software Engineering? (A) software (C) Application of engineering principles to the design a software (B) Testing (D) Agile	1	2	1
3. Who is the father of Software Engineering (A) Margaret Hamilton (C) Alan Turing (B) Watts S. Humphrey (D) Boris Bezier	1	1	1
4. _____ is a software development activity that is not a part of software processes. (A) Validation (C) Development (B) Specification (D) Dependence	1	4	1
5. You are a Project Manager currently. You have finalized the list of Stakeholders. Which Process Group are you working in? (A) Planning (C) Monitoring and controlling (B) Executing (D) Initiating	1	1	2
6. Which of the following is an activity that distributes estimated effort across the planned project duration by allocating the effort to specific software engineering tasks? (A) Macroscopic schedule (C) Frame work (B) Software Project scheduling (D) Task set	1	1	2
7. Every task that is scheduled should be assigned to a specific team member is termed as (A) Compartmentalization (C) Defined responsibilities (B) milestones (D) outcomes	1	1	2
8. What is a collection of software engineering work tasks, milestones, and deliverables that must be accomplished to complete a particular project? (A) Task set (C) Adaptation criteria (B) Degree of milestone (D) Mission criticality	1	1	2

9. Which of the following is a project scheduling method that can be applied to software development?	1	1	3
(A) SLM			
(B) LMS			
(C) CMM			
(D) PERT and CPM			
10. Risk management is one of the most important jobs for a	1	1	3
(A) client			
(B) Investor			
(C) Production Team			
(D) Project manager			
11. Which of the following risk is the failure of a purchased component to perform as expected?	1	1	3
(A) Product risk			
(B) Project			
(C) Business			
(D) Programming			
12. Which of the following term is best defined by the statement: "There will be a change of organizational management with different priorities."?	1	1	3
(A) Staff turnover			
(B) Technology change			
(C) Management change			
(D) Product competition			
13. Agile Software Development is based on	1	3	4
(A) Incremental Development			
(B) Iterative			
(C) Linear			
(D) Time oriented			
14. Which on of the following is not an agile method?	1	4	4
(A) XP			
(B) 4GT			
(C) AUP			
(D) IOT			
15. When agile methodology was introduced?	1	1	4
(A) 2001			
(B) 2009			
(C) 2000			
(D) 2004			
16. A product is built in a series of repetitions called _____	1	1	4
(A) Scrum			
(B) Kanban			
(C) Sprints			
(D) Kaizen			
17. Where are the customer requirements stored?	1	1	5
(A) In the Product Backlog			
(B) In the Sprint			
(C) In a database			
(D) Nowhere. The Scrum Product Owner knows them			
18. Which concept is NOT defined in the Scrum Framework?	1	1	5
(A) Scrum Master			
(B) Project Manager			
(C) Scrum Product Owner			
(D) Daily Scrum			
19. Which of the following is a MAIN purpose of a Sprint Backlog?	1	1	5
(A) For the Developers to manage themselves during the Sprint			
(B) Scrum Master to manage the progress during			
(C) Developers to manage the number of hours spent on tasks i			
(D) Product Owner to understand what the Developers has committed			
20. Who is primarily responsible for maintaining the Product Backlog?	1	1	5
(A) Product Owner			
(B) Scrum Team			
(C) Scrum Master			
(D) Stakeholders			

PART - B (5 × 4 = 20 Marks)

Answer **any 5** Questions

21. What are the steps of project identification?	4	1	1
22. How do you write a project identification?	4	1	1
23. Briefly Explain Pert Techniques	4	1	2

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|---|---|---|---|
| 24. What are the 5 risk management strategies in project management? | 4 | 1 | 3 |
| 25. List out the Agile Principles. | 4 | 1 | 4 |
| 26. Developers and management must work together in Agile Management-Justify your answer. | 4 | 1 | 4 |
| 27. List out the Phases of Scrum | 4 | 1 | 5 |

PART - C (5 × 12 = 60 Marks)

Answer **all** Questions

Marks BL CO

- | | | | |
|--|----|---|---|
| 28. (a) Explain software Management and Give suitable examples. | 12 | 1 | 1 |
| (OR) | | | |
| (b) Explain functions of software management from a management perspective. | | | |
| 29. (a) Calculate the earliest start, earliest finish, latest start latest finish and total float of each activity of the project given below: | 12 | 1 | 2 |

Activity	1-2	1-3	1-5	2-3	2-4	3-4	3-5	3-6	4-6	5-6
Duration (weeks)	8	7	12	4	10	3	5	10	7	4

(OR)

- (b) The following table shows the jobs of a network along with their time estimates.

Job	1-2	1-6	2-3	2-4	3-5	4-5	6-7	5-8	7-8
a(days)	1	2	2	2	7	5	5	3	8
m(days)	7	5	14	5	10	5	8	3	17
b(days)	13	14	26	8	19	17	29	9	32

Draw the project network and find the expected time and variance of each Activity.

- | | | | |
|---|----|---|---|
| 30. (a) Explain the steps for handling risk in an IT Project | 12 | 1 | 3 |
| (OR) | | | |
| (b) Explain RMMM plan and control. | | | |
| 31. (a) Explain the various principles of Agile methodology and briefly discuss its application in IT projects. | 12 | 1 | 4 |
| (OR) | | | |
| (b) Explain the regular and hybrid life cycle models applied in software application development. | | | |
| 32. (a) Discuss the salient characteristics of XP and bring out its principles. | 12 | 1 | 5 |
| (OR) | | | |
| (b) Define DevOps and explain the functioning of DevOps elaborately. | | | |

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