Reg. No

B.Tech DEGREE EXAMINATION, MAY 2024

Seventh Semester

18MBH464J - IT PROJECT MANAGEMENT

(For the candidates admitted during the academic year 2018-2019 to 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 $(20 \times 1 = 20 \text{ Marks})$ Answer all Questions			Marks BL		со	
1.	Define Agile scrum methodology. (A) project management that emphasizes incremental progress (C) project management that emphasizes neutral progress	(B) project management that emphasizes decrement-al progress (D) project management that emphasizes no progress	1	I	1	
2.	What are the features of Software Code? (A) Simplicity (C) Modularity	(B) Accessibility (D) Icon	1	1	1	
3.	CASE stands for (A) Computer-Aided Software Engineering (C) Cost Aided System Experiments	(B) Control Aided Science and Engineering(D) Unit Testing	1	1	1	
4.	Every task that is scheduled should be assi as (A) Compartmentalization (C) Defined responsibilities	gned to a specific team member is termed (B) Defined milestones (D) Defined outcomes	l)	enned	
5.	Ensuring that no more than the allocated notime in Software Scheduling is known as (A) Time Allocation (C) Defined Milestone		1	i	2	
6.	What evaluates the risk associated with the project scope? (A) Concept scoping (C) Technology risk assessment	(B) Preliminary concept planning (D) Customer reaction to the concept	1	1	2	
7	For a project activity the optimistic pessin days are respectively what is the expected (A) 10 days (C) 9days		1	3	2	
8.	In the time-cost optimization, using CPM of the activities along the critical path is do (A) Longest duration (C) Least cost slope		l	1	2	
9.	Which of the following term is best det technology on which the system is built is s (A) Technology change (C) Requirements change		1	1	3	

10.	What assess the risk and your plans for rislearn more about the risk? (A) Risk monitoring (C) Risk analysis	sk mitigation and revise these when you (B) Risk planning (D) Risk identification	1	1	3
71.	Which of the following risks are derived from the software is being developed? (A) People risks (C) Estimation risks	om the organizational environment where (B) Technology risks (D) Organizational risks	1	1	3
12.	In which sort of project is the use of a Gantt (A) Projects in which the use of resources must be carefully monitored.	(B) Projects with few activities and resources involved.	1	1	3
	(C) Projects where the time periods involved are very short.	(D) projects with many activities involved.			
13.	How is plan driven development different fr (A) Outputs are decided through a process of negotiation during the software development process (C) Iteration occurs within activities	om agile development? (B) Specification, design, implementation and testing are interleaved (D) Iconic model	1	1	4
14.	How many phases are there in Scrum? (A) Two (C) Four	(B) Three(D) Scrum is an agile method which means it does not have phases	1	1	4
15.	Which of the following does not apply to ag (A) Uses incremental product delivery strategy (C) Eliminate the use of project planning and testing	ility to a software process? (B) Only essential work products are produced (D) Task risk	1	1	4
16.	Development(ASD)? (A) analysis, design, coding	(B) requirements gathering, adaptive cycle planning, iterative development	ì	1	4
17	(C) speculation, collaboration, learning	(D) Earning before Tax	_		
1/.	The optimum duration is the (A) the summation of normal-duration of each activity in the project (C) one, which gives the minimum total cost for completing the project	(B) summation of the normal-duration of activities on critical path(D) summation of crash-time of activities on critical path	1	1	5
	what is the full form of devOps? (A) Development and Operations (C) Drive and Operations	(B) Digital and operations(D) Direct and Operations	1	1	5
	Which of the following methods can not be (A) Protected methods (C) Public Methods	tested by Junit test class (B) Private Methods (D) Posted Methods	1	į	5
	Which of the following methods can not be (A) Operating (C) Build	part of DevOps life cycle? (B) Plan (D) Code	1		5

PART - B $(5 \times 4 = 20 \text{ Marks})$

Answer any 5 Questions		Marks BL		СО
21.	1. Bring out the differences between software projects and other projects.		1	1
22.	. Discuss the broad categories of risk and suggest ways to overcome them.		1	2
23.	. Explain the importance of project termination.		l	2
24.	List the common agile practices and explain any one in detail.	4	l	3
25.	. Explain briefly the working of DevOps.		1	4
26.	Explain the steps involved in the prototyping process.	4	1	5
27.	Compare Unit Testing and Integration Testing and explain the related processes		1	5
	$PART - C (5 \times 12 = 60 Marks)$		Marks BL	
	Answer all Questions		•	
28.	(a) Compare the V-model of SDLC with the respective stages of the waterfall model (OR)	12	1	1
	(b) With a neat sketch, illustrate the various stages of the waterfall model of SDLC.			
29.	(a) A project schedule has the following characteristics. Draw the network diagram and find total float the critical path.	12	ì	2
	Activity 1-2 1-3 2-4 3-4 3-5 4-5 4-6 5-6			
	Time(days) 6 5 10 3 4 6 2 9 (OR)			
	(b) A project has the following activities and other characteristics:			
	Estimated Duration (in weeks) Activity(i-j) Optimistic Most likely Pessimistic			
	1-2 1 1 7			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
	2-5 1 11			
	3-5 2 5 14 4-6 2 5 8			
	5-6 3 6 15			•
	(i) What is the expected project length? Find Expected time and variance of each Activity.			
30.	(a) Bring out the different testing phases that are executed in a software development project.	12	1	3
	(OR) (b) Elaborate on the different principles involved in managing risks in IT projects			
31.	(a) Explain Agile framework in detail and elucidate its principles. (OR)	12	1	4
	(b) List the common agile practices and explain each one in detail.			
32.	(a) Define SCRUM. Discuss its methodologies employed in IT projects. (OR) (b) Illustrate the life cycle approach of DevOps. Discuss its advantages and	12	1	5
9	disadvantages.			

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