Question Paper Code 13439

## B.E. / B.Tech. - DEGREE EXAMINATIONS, APR / MAY 2025

Seventh Semester

## Computer Science and Business Systems

## 20CBPW703 - IT PROJECT MANAGEMENT WITH LABORATORY

Regulations - 2020

Dι	aration: 3 Hours	Max. Marl	ks: 10	00
PART - A (MCQ) $(10 \times 1 = 10 \text{ Marks})$			<i>K</i> –	
	Answer ALL Questions	Marks	Level	co
1.	What is PERT analysis based on?	1	<i>K1</i>	CO1
	(a) Optimistic time (b) Pessimistic time (c) Most likely time (d) All of the above			
2.	Which of the options is not a notable challenge while scheduling a project?	1	K1	CO1
	(a) Deadlines exist (b) Independent activities			
	(c) Too many workers may be required (d) Costly delay			
3.	How resource leveling done in project management?	1	<i>K1</i>	CO2
	(a) Reduce resource requirements by smoothing out period-to period resource assignment	its.		
	(b) Ensure that the budget abnormalities are overcome.			
	(c) Reduce the amount of resources so that they can be shared with on other endeavors.			
	(d) Increase the amount of the project manager's authority so that budget dollars can be			
4	appropriated.	1	K1	CO2
4.	What is risk mitigation?	1	K1	CO2
	(a) Accepting the consequences of a risk without taking any action (b) Transforming the impact of a risk to another party.			
	<ul><li>(b) Transferring the impact of a risk to another party</li><li>(c) Reducing the probability and impact of a risk</li></ul>			
	(d) Avoiding any identification of risks in a project			
5.	Which Agile framework is built around the idea of customer satisfaction through early	v 1	K1	CO3
٦.	and continuous delivery of valuable software?	y		
	(a) Scrum (b) Kanban (c) XP (d) Lean			
6.	Lean methodology aims to:	1	K1	CO3
	(a) Maximize efficiency by eliminating waste			
	(b) Prioritize individuals and interactions over processes and tools			
	(c) Use fixed-length iterations called sprints			
	(d) None of the above			
7.	Who is responsible for maximizing the value of the product and the work of the	1	<i>K1</i>	CO4
	Development Team?			
	(a) Scrum Master (b) Product Owner			
	(c) Development Team (d) Stakeholders			a
8.	What is the primary role of Scrum Master?	1	K1	CO4
	(a) Manage the project budget			
	(b) Remove impediments and facilitate the Scrum process			
	(c) Write code and oversee development			
0	(d) Prioritize user stories the team to work efficiently.	1	K1	CO5
9.	Which statement best describes the role of Change Management within a DevOps environment?	1	IX I	003
	(a) Nothing changes as a risk adverse Change Management approach is paramount to IT a	and		
	business success.	ши		
	(b) The moment an app change is asked for, the request should go to the Developers to			
	authorise. Once authorised it goes to Operations for implementation.			
	(c) The moment an app change is asked for, the request should go out to everyone on the			
	team, no matter which IT discipline they work in.			
	(d) None of the Above			

10.	Relate (a) QA	the extension of Devops.  (b) Agile (c) Waterfall (d) None of the above	1	K1	CO5
	(4)				
		PART - B $(12 \times 2 = 24 \text{ Marks})$ Answer ALL Questions			
11.	Comp	are PERT and CPM.	2	K2	CO1
12.	What	s fast tracking?	2	K1	CO1
13.	Explai	n project crashing.	2	K2	CO1
14.	What	is risk assessment matrix?	2	<i>K1</i>	CO2
15.	Comp	are direct cost and indirect cost.	2	<i>K</i> 2	CO2
		y two methods of risk analysis and its features.	2	K1	CO2
		e the principles of Agile Manifesto.	2	K1	CO3
		the relationship between Agile Scrum and Lean.	2	K2	CO3
		are the activities involved in backlog refinement meeting?	2	K1	CO4
		at the activities of sprint review meeting.	2	K1	CO4
		CI/CD pipeline is integrated with Devops?	2 2	K1	CO5
22.	Why A	Automated Testing is essential for CI/CD?	2	K1	CO5
		$PART - C (6 \times 11 = 66 Marks)$			
		Answer ALL Questions			
23.	a)	Explain in detail about the scheduling process done in PERT and steps for finding the longest path.	11	K2	CO1
		OR			
	b)	Classify various project management methodologies with real time example.	11	<i>K</i> 2	CO1
24.	a)	What is Resource Scheduling? Explain the steps how resource has been scheduled in project.	11	K2	CO2
		OR			
	b)	Explain cost control method how it projected in IT Project Management.	11	K2	CO2
25.	a)	Explain the functionality of the lean framework and write the its advantages and disadvantages.	11	K2	СОЗ
		OR			<i>a</i>
	b)	Summarize the XP extreme programming framework applied to agile environment and brief the features of XP and its merits and demerits.	11	K2	CO3
26.	a)	Organize the Sprint Planning meeting for scrum team and how planning poker estimation done during the planning phase.	11	К3	CO4
		OR			
	b)	Identify the roles in Scrum: Scrum Master, Product Owner, and Development Team.	11	<i>K3</i>	CO4
27.	a)	Build the various components of Docker Architecture.  OR	11	К3	CO5
	b)	Select any one automation Testing tool and method and Explain how it is integrated with CI/CD Pipeline.	11	<i>K3</i>	CO5
28.	a) (i)	Identify the various activities in Product Backlog.	5	К3	CO4
	, , ,	Develop the use case of how Docker helpful in Media Entertainment.  OR	6	К3	CO5
	b) (i)	Identify the various activities in Sprint Backlog.	5	<i>K3</i>	CO4
		Develop the use case of how Docker helpful in Healthcare.	6	<i>K3</i>	CO5