Enrollment No....................................

Faculty of Engineering
End Sem (Odd) Examination Dec-2022
CB3CO20 IT Project Management

Programme: B.Tech.   Branch/Specialisation: CSBS

Duration: 3 Hrs.   **Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

Q.1　i.　The PERT in project management means program evaluation and _____ technique. **1**
　　　　(a) Resource　　　　　　　(b) Reconciliation
　　　　(c) Reconsideration　　　　(d) Review

　　ii.　The activities A, B, and C are the direct precursors of Y. What is the earliest starting time for Y if the three activities' earliest finishing times are 12, 15, and 10? **1**
　　　　(a) 10　　　(b) 15　　　(c) 12　　　(d) None of these

　　iii.　Which of the following functions of Production Planning and Control is related to the timetable of activities? **1**
　　　　(a) Scheduling　　　　　　(b) Dispatching
　　　　(c) Expediting　　　　　　(d) Routing

　　iv.　Five dimensions that must be managed on a project- **1**
　　　　(a) Constraint, Quality, Cost, Schedule, Staff
　　　　(b) Features, Quality, Cost, Schedule, Staff
　　　　(c) Features, Priority, Cost, Schedule, Staff
　　　　(d) Features, Quality, Cost, Schedule, Customer

　　v.　Which of the following Agile methodology advocates the use of problem domain? **1**
　　　　(a) Evo　　　　　　　　　(b) Scrum
　　　　(c) Extreme programming　　(d) Feature-Driven Development

　　vi.　What does an agile approach value? **1**
　　　　(a) Plans over people　　　　(b) People over process
　　　　(c) Process over people　　　(d) Plans over process

　　vii.　There are……………. phases in Scrum. **1**
　　　　(a) 2　　　(b) 3　　　(c) 4　　　(d) 5

viii. Which of the following is responsible for sprint meeting? **1**
(a) Scrum team   (b) Scrum master
(c) Product Owner   (d) None of these

ix. Which of the following key component of DevOps? **1**
(a) Continuous Delivery   (b) Continuous Testing
(c) Continuous Integration (d) All of these

x. Identify the methodologies does least impact the establishment of **1**
DevOps methodology?
(a) Waterfall Software Delivery   (b) Lean Manufacturing
(c) Continuous Software Delivery   (d) Agile Software Delivery

Q.2 i. What is the difference between PERT and CPM? **4**

ii. What is critical path computation? What are the steps involved in **6**
critical path calculation?

OR iii. What are the main methods of cost estimating? How is a financial **6**
estimate made for a project?

Q.3 i. What is resource scheduling and resource levelling? **4**

ii. What is risk analysis in project management? What are the steps of risk **6**
analysis?

OR iii. What is project termination and audit? What are the types of project **6**
termination?

Q.4 i. What are the principles of agile methods? **4**

ii. What are the phases of agile project management? **6**

OR iii. What is relation between agile, Lean, DevOps and IT Service **6**
Management (ITIL)?

Q.5 i. What is the difference between a sprint backlog and product backlog? **4**

ii. Explain Various terminologies used in Scrum? **6**

OR iii. Write a best practice of Scrum? **6**

Q.6 Attempt any two:

i. What are the components of DevOps? Explain it. **5**

ii. What is test-driven development in DevOps? What is the benefit of **5**
Test-Driven Development?

iii. What is configuration management in DevOps? Why is configuration **5**
management important in DevOps?

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Marking Scheme
CB3CO20 IT project management

Q.1	i)	The **PERT** in project management means program evaluation and _____ technique. d. review	1
	ii)	**The activities A, B, and C are the direct precursors of Y. What is the earliest starting time for Y if the three activities' earliest finishing times are 12, 15, and 10?** b. 15	1
	iii)	Which of the following functions of Production Planning and Control is related to the timetable of activities? a.Scheduling	1
	iv)	Five dimensions that must be managed on a project b. Features, Quality, Cost, Schedule, Staff	1
	v)	Which of the following Agile methodology advocates the use of problem domain? d. Feature-Driven Development	1
	vi)	What does an agile approach value? b. People over process	1
	vii)	There are................. phases in Scrum. d. 5	1
	viii)	Which of the following is responsible for sprint meeting? b. Scrum master	1
	ix)	**Which of the following key component of DevOps?** d.All of the above	1
	x)	**Identify the methodologies does least impact the establishment of DevOps methodology?** a.Waterfall Software Delivery	1
Q.2	i.	**Atleast 4 difference 1 marks each**	4
	ii.	critical path computation(**3 marks**) the steps involved in critical path calculation? (**3 marks**)	6
OR	iii.	What are the main methods of cost estimating? (**Atleast 3 method**) How is a financial estimate made for a project? (**3 marks**)	6

Q.3	i.	What is resource scheduling (**2 marks**) and resource leveling? (**2 marks**)	4
	ii.	What is risk analysis in project management? (**3 marks**) What are the steps of risk analysis? (**3 marks**)	6
OR	iii.	What is project termination and audit? (**3 marks**) What are the types of project termination? (**3 marks**)	6
Q.4	i.	What are the principles of agile methods?	4
	ii.	What are the phases of agile project management**?(1 marks each)**	6
OR	iii.	What is relation between agile, Lean, DevOps and IT Service Management (ITIL)? (**1.5 marks each**)	6
Q.5	i.	What is the difference between a sprint backlog and product backlog? **Atleast 4 difference 1 marks each**	4
	ii.	Explain Various terminologies used in Scrum? (**1 marks each**)	6
OR	iii.	Write a best practice of Scrum? (**1 marks each**)	6
Q.6		Attempt any two:	
	i.	What are the components of DevOps? Explain it. (**1 marks each**)	5
	ii.	What is test-driven development in DevOps? (**2.5 marks**) What is the benefit of Test-Driven Development? (**2.5 marks**)	5
	iii.	What is configuration management in DevOps? (**2.5 marks**) Why is configuration management important in DevOps? (**2.5 marks**)	5

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