

Enrollment No.....



Faculty of Engineering
End Sem Examination Dec-2023
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. Assume suitable data if necessary. Notations and symbols have their usual meaning.

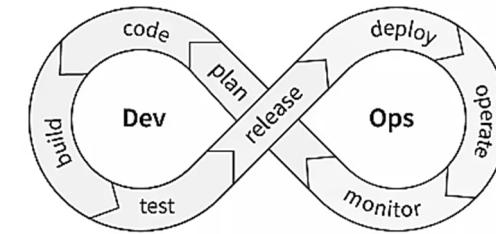
- Q.1 i. In PERT, the span of time between the optimistic and pessimistic time estimate of an activity is- **1**
 (a) 3 Sigma (b) 6 Sigma (c) 9 Sigma (d) 12 Sigma
- ii. The path which moves along the activities having total float zero, in the network diagram is called- **1**
 (a) Free Float (b) Critical Path
 (c) Total Float (d) Independent Float
- iii. _____ is an Agile concept in which the iterations are extremely short, so each iteration only contains a few tasks and feedback from product owners is rapid and frequent. **1**
 (a) Extreme Programming (XP)
 (b) Function point analysis
 (c) Burn down Chart
 (d) Critical Analysis
- iv. _____ is a specified time interval in Agile PM; also referred to as an iteration. **1**
 (a) Sprint (b) Scrum (c) Iteration (d) Time Service
- v. Which are the pillars of Scrum framework? **1**
 (a) Transparency (b) Inspection
 (c) Adaption (d) All of these
- vi. What is the duration of Scrum Spring? **1**
 (a) 3-4 Weeks (b) 3-4 Days
 (c) 3-4 Months (d) 3-4 Years

[2]

- vii. Which of the following is not the part of DevOps cycle? **1**
 (a) Plan (b) Build (c) Code (d) Deploy
- viii. What is the use of GIT? **1**
 (a) Continuous Integration Tool
 (b) Version Control Tool
 (c) Continuous Monitoring Tool
 (d) Project Storage Tools
- ix. DevOps culture is about _____ between Dev and Ops. **1**
 (a) Collaboration (b) Communication
 (c) Culture (d) Creativity
- x. The _____ approach focuses more on continuously aligning development with customer requirements. **1**
 (a) DevOps (b) Agile (c) ITIL (d) ITSM
- Q.2 i. Define Market – Demand Analysis with example. **2**
 ii. What is CPM and how it is different than PERT? **3**
 iii. What is precedence relationship in Critical Path Scheduling/Calculation? Discuss along with one critical path calculation example. **5**
- OR iv. Write short notes on: **5**
 (a) Project Control
 (b) Project Audit
- Q.3 i. What is agile methodology? List out various types of methodology. **2**
 ii. (a) What are the principles of Agile Testing? **8**
 (b) What are the quality of good Agile Tester?
- OR iii. Discuss the 4 values and 12 principles of Agile Manifesto. **8**
- Q.4 i. Define Sprint and its uses in software development life cycle. **3**
 ii. Elucidate Scrum and its team organization along with their roles and best practices. **7**
- OR iii. Define following terms in context of Scrum: **7**
 (a) Sprint Backlog
 (b) Sprint Review
 (c) Product Backlog

[3]

- Q.5 i. Discuss DevOps key components, based on following diagram: **4**



- ii. Write a detailed note on various testing methods and test-driven methodology. **6**
- OR iii. What is deployment? Define various methods for deployment with example. **6**
- Q.6 Attempt any two: **5**
- i. Define and compare following two agile methodologies: **5**
 (a) Extreme Programming (XP)
 (b) Dynamic System Development Method (DSDM)
- ii. What is Feature Driven Development (FDD)? Also define its 5 core activities. **5**
- iii. Write short notes on following Agile Methodologies: **5**
 (a) Crystal (b) Lean (c) Kanban

Marking Scheme
IT project management-CB3CO20 (T)

Q.1	i)	b) Agile		1
	ii)	b) Critical Path		1
	iii)	a) Extreme Programming (XP)		1
	iv)	a) Sprint		1
	v)	a) All of Above		1
	vi)	a) 3-4 Weeks		1
	vii)	d. Deploy		1
	viii)	b. Version Control Tool		1
	ix)	a) Collaboration		1
	x)	b) Agile		1
Q.2	i.	Define Market – Demand Analysis	1 Mark	1+1
		Example.	1 Mark	
	ii.	CPM	1 Mark	1+2
		Different than PERT	2 Marks	
	iii.	Precedence Scheduling	3 Marks	3+2
OR		Calculation. One example.	2 Marks	
	iv.	Project Control	2.5 Marks	
		Project Audit	2.5 Marks	
Q.3	i.	Agile methodology	1 Mark	1+1
		Various types of methodology.	1 Mark	
	ii.	The principles of Agile Testing	4 Marks	4+4
		Quality of good Agile Tester	4 Marks	

OR	iii.	Discuss the 4 values of Agile Manifesto.	4 Marks	4+4
		Discuss 12 principles of Agile Manifesto	4 Marks	
Q.4	i.	Define Sprint.	2 Mark	2+1
		Its uses in software development life cycle.	1 Mark	
OR	ii.	Elucidate Scrum.	3 Mark	3+4
		Its team practices.	4 Marks	
	iii.	Sprint Backlog	3 Marks	3
		Sprint Review	2 Marks	
		Product Backlog	2 Marks	2+2
Q.5	i.	Discuss diagram	(As per explanation)	4
	ii.	Various testing methods	3 Marks	
OR		Test driven methodology.	3 Marks	3+3
	iii.	What is deployment	3 Marks	
		Various methods for deployment with example.	3 Marks	3+3
Q.6		Attempt any two:		
	i.	Extreme Programming (XP)	2.5 Marks	2.5
		Dynamic System Development Method (DSDM)	2.5 Marks	
	ii.	Feature driven development (FDD)	3 Marks	3+2
		Define its 5 core activities.	2 Marks	
	iii.	a. Crystal	2 Marks	2+2
		b. Lean	2 Marks	
		c. Kanban	1 Marks	+
