



R22 Regulation

Subject code:4E6EA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VI Semester Regular Examinations, May 2025

DEVOPS

(CSE)

Maximum Marks: 60

Date: 16.06.2025

Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks (10X1M=10 Marks)		Marks	CO	Bloom Tx
1.a)	What is the core principle of DevOps?	1M	1	L1
b)	Examine the growth of software development methodologies	1M	1	L1
c)	Write the devops lifecycle in detail?	1M	2	L1
d)	What is the the proprietary software and standardization?	1M	2	L1
e)	Examine the beginning of devops days and the current state of devops.	1M	3	L1
f)	Write about Gerrit.	1M	3	L1
g)	What is Git and write its benefits in detail?	1M	4	L1
h)	How do you install and configure Jenkins on a server?	1M	4	L1
i)	Write about various types of testing.	1M	5	L1
j)	Explain deployment of system.	1M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	Bloom Tx
2	a) Explain about Scrum.	5M	1	L2
	b) "Agile methodologies apply four values in different ways to guide the development and delivery of high-quality working software"- support this statement with an explanation of these four values.	5M		L3
	OR			
3	a) Explain about identifying bottleneck in Devops.	5M	1	L2
	b) "There are principles of Agile methodology that describe the culture in which change is welcome and the customer is the focus of work"- support this statement with a short description on the principles of Agile methodology.	5M		
4	Explain about software architecture and architecture rule of thumb.	10M	2	L2
	OR			
5	Explain the difference between monolithic and micro services architecture.	10M	2	L2
6	a) Write about history of source code management.	5M	3	L2
	b) Explain about source code management and migration.	5M		
	OR			
7	a) Explain about hosted Git server.	5M	3	L2

	b) Explain Docker intermission.	5M		
8	How do you introduce plugins to Jenkins, and why are they important in extending Jenkins' functionality?	10M	4	L2
	OR			
9	a) Write about build servers and infrastructure as code. b) Explain about alternate build server.	5M 5M	4	L2
10	What is the automation testing and explain its pros and cons.	10M	5	L2
	OR			
11	Explain about selenium and its features, puppet master and agent.	10M	5	L2