



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.																			
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Mid - Term Examinations - March 2026

Date: 11-03- 2026

Time: 11.45am to 01.15pm

School: SOCSE	Program: Computer Science and Engineering (DevOps)		
Course Code: CDV2511	Course Name: DevSecOps		
Semester: VI	Max Marks: 50	Weightage: 25%	

CO - Levels	C01	C02	C03	C04	C05
Marks	24	26			

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	Define DevSecOps?	2 Marks	L	C01
2	What is meant by "shift-left security"?	2 Marks	L	C01
3	Define Static Application Security Testing (SAST)?	2 Marks	L	C02
4	What is secrets management?	2 Marks	L	C02
5	What is Software Composition Analysis (SCA)?	2 Marks	L	C02

Part B

Answer the Questions.

Total Marks 40M

6.	a.	Explain the differences between DevOps and DevSecOps with suitable examples.	10 Marks	L	CO1
Or					
7.	a.	Explain Static Application Security Testing (SAST) in detail. Discuss its working, advantages, and limitations.	10 Marks	L	CO2
Or					
8.	a.	Explain the DevSecOps lifecycle with a neat diagram and describe each phase.	10 Marks	L	CO1
Or					
9.	a.	Explain Software Composition Analysis (SCA) and discuss its importance in managing open-source security risks.	10 Marks	L	CO2
Or					
10.	a.	Discuss how security automation can be implemented in CI/CD pipelines.	10 Marks	L	CO1
Or					
11.	a.	Discuss vulnerability scanning tools used in DevSecOps with reference to SonarQube and Snyk.	10 Marks	L	CO2
Or					
12.	a.	Explain the major security risks in DevOps and how DevSecOps mitigates them.	10 Marks	L	CO1
Or					
13.	a.	Explain how security tools such as SAST, DAST, SCA, and image scanning are integrated into a DevSecOps pipeline.	10 Marks	L	CO2