


<b>Name:</b>	 <b>UPES</b> UNIVERSITY WITH A PURPOSE
<b>Enrolment No:</b>	

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**  
**End Semester Examination, December 2019**

<b>Course: DevOps Overview</b>	<b>Semester: V</b>
<b>Program: B.Tech. CS + Big data</b>	<b>Time : 03 hrs.</b>
<b>Course Code: CSDV1001</b>	<b>Max. Marks: 100</b>

**Instructions:**

**SECTION A**

S. No.		Marks	CO
Q1	What is the major difference between Traditional IT Organization and DevOps Enabled IT Organization?	4	CO 1
Q2	Explain the following two Components of DevOps in brief. a) Continuous Monitoring b) Continuous Testing	4	CO 2
Q3	“Commit early. Commit frequently” this is the fundamental principle of CI/CD. Explain with some suitable points.	4	CO 3
Q4	Explain the following process of DevOps in detail a) User Acceptance Testing (UAT) b) Staging	4	CO 2
Q5	Emergency Fix for any bug is avoided in DevOps Culture. Explain its consequences on failure/success of a project.	4	CO 2 CO 3

**SECTION B**

Q6	What is SDLC? Differentiate between following SDLC models a) V-Shape Model b) Iterative Waterfall Model	10	CO 1
Q7	What is DevOps culture? How is this culture is beneficial for following factors? a) Communication b) Transparency c) Grassroots Innovation	10	CO 2

Q8	What is MVP (Minimum Viable Product)? Explain five necessary steps in building Minimum Viable Product.	10	CO 5
Q9	<p>What is the signification of Prototype Model? Compare this model with Spiral model. Explain.</p> <p>a) Risk Assessment b) Risk Management</p> <p style="text-align: center;"><b>OR</b></p> <p>Explain the significance of Lean Development methodology in DevOps implementation. Categories the following statement as a Myth or Fact for DevOps. Write some technical points to support your statement.</p> <p style="text-align: center;"><b>“DevOps is only for Unicorns”</b></p>	10	CO 5
<b>SECTION-C</b>			
Q 10	<p>What are the major steps involved in Application deployment? Explain following Automated process used in Application Deployment.</p> <p>a) Application Release Automation (ARA) b) Automated Application Deployment (AAD)</p>	20	CO 3
Q11	<p>What is the Significance of CAMS Model in DevOps? Explain the following four core principles of CAMS model.</p> <p>a) Culture b) Automation c) Measurement d) Sharing</p> <p style="text-align: center;"><b>OR</b></p> <p>What is the difference between Prototype and MVP? Explain the significance of both of them. What are the various factors who are responsible for rise of Agile Methodology over Waterfall model?. Explain all of them in detail with example.</p>	20	CO 1 CO 4