

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2018

Programme Name: B.Tech-DevOps

Semester : III

Course Name : Development Automation

Time : 03 hrs.

Course Code : CSDV 2001

Max. Marks: 100

Nos. of page(s) : 2

Instructions: All Sections are compulsory to attempt.

SECTION A

S. No.		Marks	CO
Q 1	What are the success factors for Continuous Integration?	4M	CO1
Q 2	What are the benefits of Automation Testing?	4M	CO2
Q 3	Explain the difference between at, crontab, and anacron with example?	4M	CO3
Q 4	Write a shell script on standard input, standard output and standard error?	4M	CO2
Q 5	Write a shell script on How to Delete archive files that are older than two days automatically	4M	CO3

SECTION B

Q 6	A. Describe briefly about common system directories? B. Critically analyze the concepts of kernel, bash and shell with neat diagrams	5M + 5M	CO4 CO5
Q 7	A. Analyze briefly about User Groups and Permissions, File Permissions with examples B. Describe any 3 Shell Features and its drawbacks	5M + 5M	CO3
Q 8	A. Illustrate the concept of Automated Deployment with sample case study B. Analyze the concept of CM with real time example	5M + 5M	CO1
Q 9	Classify DevOps tools and explain their uses in real software development with neat diagrams OR Differentiate the concept of Make and Make files with shell script program	10M	CO5

SECTION-C

Q 10	Critically analyze the following concepts with the help of diagrams A. Development Delivery Pipeline A. Code Generation. A. MDA/MDD (Model-Driven Architecture/Development). B. Task variability in DevOps Automation	5M + 5M + 5M + 5M	CO1 CO3 CO4
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Q 11	<p>Analyze the following concepts in a case study manner</p> <ul style="list-style-type: none"> A. Waterfall Vs DevOps B. V-Model Vs DevOps C. Agile Vs DevOps <p style="text-align: center;">OR</p> <p>Examine the following concepts in a case study manner</p> <ul style="list-style-type: none"> A. Fully Automated Software Delivery Process B. Need of QA C. Environment Test need D. Automated Tests 	<p>8M + 6M + 6M</p> <p>5M + 5M + 5M + 5M</p>	<p>CO1 CO2</p>
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SECTION A

S. No.		Marks	CO
Q 1	Explain the concept of Automated Tests	4M	CO1
Q 2	Explain about MDA/MDD (Model-Driven Architecture/Development) with example	4M	CO2
Q 3	Write shell script on any two conditional statements	4M	CO3
Q 4	Explain the concept Continuous Monitoring	4M	CO2
Q 5	Write shell script on How to fetch commands executed by all users that match the given pattern	4M	CO3

SECTION B

Q 6	Write the shell scripts for following scenarios with flowchart and expected outputs A. How do I Search and Replace a given text with a new text across multiple files B. I need to check whether the given input is a valid alphanumeric Character	5M + 5M	CO4 CO5
Q 7	Justify Why not use “Bash Script” instead of “Makefiles” with example? OR Justify why Automated Provisioning is in DevOps with differentiate other SDLC techniques	10M	CO3
Q 8	Examine the Benefits of Automated Deployment with real time case study	10M	CO1
Q 9	Differentiate the concept of Automated Deployment and DevOps Adoption with neat diagram	10M	CO5

SECTION-C

Q 10	Analyze the following concepts for real world applications A. Tools for Fully Automated Provisioning B. Various Available Scripting Languages C. Phases in RAD D. Categories of Code Generators	5M + 5M + 5M + 5M	CO1 CO3 CO4
Q 11	Write shell script on Calculator using the concepts of Make and Makefiles OR Write shell script on Quick sort for Best, average and Worst cases	20M	CO1 CO2