## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

**End Semester Examination, May 2022** 

**Course: Development Automation and Linux** 

Program: B. Tech CSE DevOps Course Code: CSDV 2006 Semester: IV
Time : 03 hrs.
Max. Marks: 100

Instructions: Please draw diagrams and write code wherever applicable.

SECTION A	
(50x4M=20Marks)	

	(5Qx4M=20Marks)		
S. No.		Marks	CO
Q 1	In which of the following phases is the prototype generated in RAD?  a. Business Modeling phase b. Application generation c. Testing and turnover d. Data Modelling	4	CO1
Q 2	Which of the following commands reads the user input and assigns it to a variable?  a. get b. set c. read d. declare	4	CO3
Q 3	What is Linux? List out different type of Linux.	4	CO3
Q 4	Explain the basic Linux commands listed below in one line each.  a. du  b. find  c. awk  d. sed	4	CO5
Q 5	Describe about GRUB and MBR.	4	CO2
	SECTION B		
	(4Qx10M= 40 Marks)		
Q 6	Explain the concept of Code Generation along with different categories of Code Generation tools. Also, name few commonly used code generation tools.	10	CO4
Q 7	Illustrate the syntax of 'for' loop and 'ladder-if' conditional statement through shell script example.  OR  Illustrate the syntax of 'while' loop and 'switch' conditional statement through shell script example.	10	CO3
Q 8	Describe Linux Package management and detail out different package managers.	10	CO2
Q 9	Illustrate the difference between 'Make' and 'Makefile' in Linux.  Describe the structure of Rule in Makefile.	10	CO5
	SECTION-C (2Qx20M=40 Marks)		

Q 10	Describe the Fully Automated Software Delivery Process. Explain the below different phases:  1. Automated Build 2. Automated Test 3. Automated Deployment 4. Automated Provisioning OR  Describe the Automated Test phase of Delivery pipeline in detail. Explain different type of Automated Testing in detail. Analyze the difference between TDD and BDD.	20	CO4
Q 11	Analyze about User Groups and Permissions, File Permissions with examples in detail.	20	CO1