Instructions

Read the instructions provided for every question properly before attempting the answer.

Section - 1 :
contain(s)
6
question(s) and each question carries
5
mark(s).

Section - 2 :
contain(s)
5
question(s) and each question carries
10
mark(s).

Section - 3 :
contain(s)
1
question(s) and each question carries
20
mark(s).

Click
Finish
only after completion of the Exam.

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1. Section - A

5 marks per question   **6** display questions   **6** maximum answerable

Q1   MCQ - Single Answer   **5** marks   CO4

Which of the following commands reads the user input and assigns it to a variable?

- ○ get
- ○ set
- ◉ read
- ○ declare

— Rubrics —

Q2   MCQ - Single Answer   **5** marks   CO2

In which of the following phases is the prototype generated in RAD?

- ○ Business Modeling phase
- ◉ Application generation
- ○ Testing and turnover
- ○ Data Modelling

Q3   MCQ - Single Answer   **5** marks   CO3

Git, GitHub, Atlassian Stash, Subversion are type of

○ Unit Test Tools

◉ Source Version Control System

○ Continuous Integration Server

○ Static Analysis Tools

Rubrics

Q4   MCQ - Single Answer   **5** marks   CO1

Which of the following common system directories is used to mount remote file system and temporary devices such as CD, DVD and USB.

◉ /mnt

○ /var

○ /etc

○ /tmp

Rubrics

Q5   MCQ - Single Answer   **5** marks   CO4

Which of the following commands prints the current date and time based on the local time zone of the system.

○ top

○ last

○ free

◉ date

Rubrics

Q6   MCQ - Single Answer   **5** marks   CO1

Which of the built-in target names runs the actions regardless of whether a file with the name exists or not.

◉ .PHONY

○ .DEFAULT

○ .IGNORE

○ .ONESHELL

Rubrics

2. Section - B   **10** marks per question   **5** display questions   **5** maximum answerable

Q1   Scan and/or Upload   **10** marks   CO4

Explain the basic Linux commands listed below in one line each.
a.   pwd
b.   tar
c.   cat
d.   mkdir
e.   df
f.   du
g.   find
h.   awk
i.   sed
j.   apt

─── Rubrics ───

Q2   Scan and/or Upload   **10** marks   CO2

Explain the Rapid Application Development Model along with its different phases and essential aspects with the diagram.
                    OR
Explain the concept of Code Generation along with different categories of Code Generation tools. Also, name few commonly used code generation tools.

─── Rubrics ───

Q3   Scan and/or Upload   **10** marks   CO4

Illustrate the syntax of 'for' loop and 'if' conditional statement through shell script example.

─── Rubrics ───

Q4   Scan and/or Upload   **10** marks   CO1

Illustrate the difference between 'Make' and 'Makefile' in Linux. Describe the structure of Rule in Makefile.

─── Rubrics ───

Q5   Scan and/or Upload   **10** marks   CO1

Analyze briefly about User Groups and Permissions, File Permissions with examples.

─── Rubrics ───

3. Section - C   **20** marks per question   **1** display questions   **1** maximum answerable

Q1   Scan and/or Upload   **20** marks   CO3

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.

─── Rubrics ───