**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **3BC5104** | Roll No. | Total Printed Pages: 2 |
| **3BC5104** |  |
| BCA III Year V-Semester (Main/Back) End Semester Examination, November 2022  **(Cloud)** | |
| **BCT05104 : Infrastructure Automation** | | | |

# Time: **3** Hours. Total Marks: **60**

Min. Passing Marks: **21**

Attempt **five** questions selecting one question from each Unit. There is internal choice from Unit I to Unit V. Marks of each question or its parts are indicated against each question / parts. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Use of following supporting material is permitted during examination for this subject.

# **1.--------------------------Nil--------------------** **2.------------------Nil-----------------------**

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|  |  | **UNIT-I (CO1)** | **Marks** | **Bloom Level** |
| **Q.1** | **(a)** | What is Infrastructure Automation and why is it important? | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | Explain briefly different types of Chef setups. | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | Explain the advantages and disadvantages of Chef. | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | What are the key building blocks of Chef? | **(6)** | **Remember a** |
|  |  |  |  |  |
|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | What are the resources in a recipe? Give examples and explain with brief description. Explain the features of Chef. | **(6)** | **Understand Explain** |
|  |  |  |  |  |
|  | **(b)** | What are the main components of Chef architecture? How each one of it connected to each other? Explain with diagram. | **(6)** | **Understand and Apply** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.4** | **(a)** | Define Recipe and Cookbook. What are the Workstation components? | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | What is Puppet? What are the features of Puppet? | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **UNIT-III (CO3)** |  |  |
|  |  |  |  |  |
| **Q.5** | **(a)** | What is Chef Client? How does it work? | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | How does a node object being stored in chef server? Explain it. | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.6** | **(a)** | What are Chef Client nodes and how to manage them? | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | Write down the differences between the functions of Chef Client and Chef Server. | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **UNIT-IV (CO4)** |  |  |
|  |  |  |  |  |
| **Q.7** | **(a)** | What is the stand-alone architecture in Puppet? Explain Class in Puppet. | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  |  |  |  |
|  | **(b)** | How do Puppet Agent nodes communicate with Puppet Masters and vice-versa? | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.8** | **(a)** | What is Facter? Define Puppet Catalog. | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | What are the differences between Chef and Puppet? | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | What is Puppet Manifest? Explain Puppet Modules. | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Describe Puppet Resources | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | Describe Node matching and Catalogue compilation | **(6)** | **Understand and Apply** |
|  |  |  |  |  |
|  | **(b)** | Describe Puppet Run Cycle | **(6)** | **Remember** |