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| Name: |  |
| Enrolment No: | |

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

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| Course: Cloud Computing Architecture | Semester: III |
| Programme: B Tech CCVT | Code: CSVT3001 |
| Time: 03 hrs | Max. Marks: 100 |

SECTION A

| S.No. | Question | Marks | CO |
|-------|--|-------|-----|
| 1. | In any IT infrastructure, elaborate with examples, what all can be virtualized. | 5 | CO1 |
| 2. | List and briefly describe phases in Cloud Life Cycle Model. | 5 | CO1 |
| 3. | Explain the process of monitoring. List what are the various things monitored in IaaS. | 5 | CO2 |
| 4. | Justify why it is better to rent infrastructure. | 5 | CO2 |

SECTION B

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| 5. | Differentiate between Products and Services business in light of IT infrastructure and justify Cloud as Services business. | 10 | CO1 |
| 6. | Explain the EC2 IaaS services provided by AWS and detail two AWS IaaS offerings like T3, M5 or such. | 10 | CO2 |
| 7. | In context of software development life cycle justify the need and value of Platform as a Service (PaaS). | 10 | CO3 |
| 8. | Differential between the approaches to PaaS - Integrated life cycle, Anchored life cycle and Enabling Technologies as platform. | 10 | CO3 |
| | OR | | |
| | Explain the considerations for using PaaS, listing compelling factors that will justify use of PaaS. | | CO3 |

SECTION-C

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| 9. | Draw Cloud Reference Architecture diagram and explain Cloud Service Management and describe its components. | 20 | CO5 |
| 10. | Define and briefly describe any five of the following SaaS implementation concepts from salesforce.com: Multitenant Kernel, Metadata driven Kernel, Polyglot Persistence, Multitenant Data Model, Object Query Language, Apex Procedural Language and Multitenant Processing. | 20 | CO4 |
| | OR | | |
| | a. Explain different types of SaaS Platforms with example. b. Justify SaaS based on economics & ecosystem. Substantiate with an example. | | CO4 |