|--|

B.Tech DEGREE EXAMINATION, DECEMBER 2023

Fifth Semester

18CSE362J - CLOUD, MICROSERVICES AND APPLICATION

(For the candidates admitted during the academic year 2020 - 2021 & 2021 - 2022)

Note:

i. Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.
 ii. Part - B and Part - C should be answered in answer booklet.

| Tim | e: 3 Hours | | Max. | Marks | : 100 |
|-----|--|---|------|--------|-------|
| | PART - A $(20 \times 1 = Answer all Que$ | | Mai | rks BL | CO |
| 1. | These cloud services are of the form of a services pay-as-you-go model. (A) Cloud providers (C) End users | (B) Clients (D) Cloud users | ; 1 | 1 | 1 |
| 2. | Which of the following is essential concep (A) Reliability (C) Abstraction | ot related to Cloud? (B) Productivity (D) Security | 1 | 2 | 1 |
| 3. | Which of the following cloud concept is re (A) Polymorphism (C) Virtualization | elated to pooling and sharing of resources? (B) Abstraction (D) Resources Sharing | 1 | 2 | 1 |
| 4. | is a paradigm of distributed demand, utility based computing service. (A) Remote Sensing (C) Cloud Computing | (B) Remote Invocation (D) Private Computing | . 1 | 3 | 1 |
| 5. | Which of the following component of H Resource representation? (A) Request Body (C) HTTP Version | TTP request contains message content or (B) URL (D) Request Header | 1 | 3 | 2 |
| 6. | Which REST Operation Group lists the op (A) API Management operations (C) API operation | erations for API Management provider? (B) API Management service (D) API schema | 1 | 1 | 2 |
| 7. | Which of the following impose addition transfer? (A) Block storage (C) File Server | (B) File Storage (D) Block File | 1 | 2 | 2 |
| 8. | Which one of the following is a kind of physical instance of an application organizations/customers? (A) Virtualization (C) Grid Computing | | | 2 | 3 |
| 9. | Which one of the following methodologic Devops methodology? (A) Agile Software Delivery | es does least impact the establishment of (B) Waterfall Software Delivery | 1 | 3 | 2 |
| | (C) Lean Manufacturing | (D) Continuous Software Delivery | | | |

| | 10. | Which of the following is not a feature of c (A) Continuous Improvement | continuous delivery ? (B) Automate Everything | 1 | 2 | 3 |
|------|--------|--|---|------|-------|--------|
| | | (C) Bug fixes and experiments | (D) Gathering Requirement | | | |
| | 11 | Docker Machine manage virtual hosts that | nse | 1 | 4 | 3 |
| | | (A) Command line | (B) Docker Datacenter | | | |
| | | (C) Graphical user interface | (D) Docker Machine | | | |
| | 12. | How you manage Docker images? (A) Docker Hub | (B) Docker Machine | 1 | 1 | 4 |
| | | (C) Docker swarm | (D) Docker Client | | | |
| | 13. | Why does the name of local variables start (A) To identify the variable (C) It indicates a private variable of a class | with an underscore discouraged? (B) It confuses the interpreter (D) It indicates the public variable of a class | 1 | 2 | 4 |
| | 14. | What is the method inside the class in pyth (A) Object (C) Attribute | on language? (B) Function (D) Argument | 1 | 3 | 3 |
| | 15. | What do we use to define a block of code i (A) Key (C) Indentation | n Python language? (B) Brackets (D) Semicolon | 1 | 1 | 5 |
| | 16. | Which of the following is the correct exten (A) .python (C) .py | sion of the Python file? (B) .pl (D) .p | 1 | 1 | 4 |
| | 17. | Which of the following is a type of cloud of (A) Service-as-a-Software (SaaS) (C) Software-as-a-Service (SaaS) | computing service? (B) Software-and-a-Server (SaaS) (D) Software-as-a-Server (SaaS) | 1 | 3 | 6 |
| | 18. | Applications and services that run on resources is known as (A) Parallel computing | a distributed network using virtualized (B) Soft computing | 1 | 3 | 5 |
| | | (C) Distributed computing | (D) Cloud computing | | | |
| | 19. | Which architectural layer is used as a back (A) Cloud (C) Client | end in cloud computing? (B) Soft (D) Backend | 1 | 3 | 4 |
| | 20. | Which of the following is the most importa (A) Scalability (C) Security | ant area of concern in cloud computing? (B) Storage (D) Privacy | 1 | 3 | 6 |
| | | PART - B $(5 \times 4 = 2)$ Answer any 5 Q | | Marl | cs BL | СО |
| | 21. | List out the function of virtualization. | | 4 | 1 | 1 |
| | 22. | Write short notes on AWS lambda function | 1 | 4 | 3 | 2 |
| | 23. | Discuss in detail about micro services Arch | hitecture. | 4 | 2 | 3 |
| | 24. | Discuss in detail about cloud storage device | ee. | 4 | 3 | 3 |
| | 25. | Define cloud scaling and write about launce | ch template | 4 | 2 | 3 |
| | 26. | What is the difference between Lists and T | Suples? Give an example for their usage. | 4 | 3 | 4 |
| | 27. | What is an identity card? How do you use | identity card to protect data? | 4 | 4 | 5 |
| Page | 2 of 3 | | | | 05DF5 | -18CSE |

| | PART - C ($5 \times 12 = 60$ Marks) Answer all Questions | Mar | ks BL | СО |
|-----|--|-----|-------|----|
| 28. | (a) Briefly explain about cloud services models (OR) (b) Define multitenant technology and explain its features. | 12 | 3 | 4 |
| 29. | (a) Compare monolithic and microservices architecture (OR) (b) List out the functions of API. | 12 | 6 | 5 |
| 30. | (a) Discuss in detail about devops architecture. (OR) (b) Explain detail about kubernetes | 12 | 4 | 4 |
| 31. | (a) What type of conditional structures are present in a programming language? How many of them are supported in Python? Explain each with example. (OR) (b) Explain in detail about Python Files, its types, functions and operations that can be performed on files with examples. | 12 | 5 | 5 |
| 32. | (a) Explain the iterative model of migration into the cloud? (OR) (b) Explain the fundamental requirement from the providers of cloud computing to allow virtual applications to freely migrate, grow, and shrink? | 12 | 5 | 6 |

* * * * *