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S.Y.M.C.A. (Management)

CAS 610 MJ : CLOUD API'S AND SERVICES

(2024 Pattern) (Semester-III)

Time : 2½ Hours] *[Max. Marks : 50*

Instructions to the candidates:

1) *All questions are compulsory.*
2) *All questions carry equal marks.*

Q1) a) Explain the key characteristics of cloud API's. **[5]**

b) Explain in detail the different Cloud API request methods. **[5]**

OR

c) Compare Graph QL & websockets based on their working principles with example. **[5]**

d) Explain the role of cloud API's in cloud computing with suitable example. **[5]**

Q2) a) Illustrate cloud API development using AWS Lambda with example. **[5]**

b) Describe the process of integrating cloud services. **[5]**

OR

c) Explain OAuth 2.0 and JWT mechanisms for API authentication and authorization. **[5]**

d) Explain how SOAP UI is used for API testing with example. **[5]**

Q3) a) Explain AI and ML services are provided in cloud by AWS. **[5]**

b) Compare Google vision AI with Azure computer vision in terms of features & applications. **[5]**

OR

c) How can cloud-based NLP API's be used for text analytics in real-world applications. **[5]**

d) Explain the working and application of speech recognition API's. **[5]**

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Q4) a) Explain serverless computing and its benefits in cloud application development. **[5]**

b) Explain event-driven programming in the cloud with reference to AWS EventBridge. **[5]**

OR

c) Describe key API security best practices. **[5]**

d) Discuss how serverless databases like five base and cosmos DB integrate with cloud API's. **[5]**

Q5) a) Discuss real-world applications of cloud API's in the fintech. **[5]**

b) Write some of the industry trends shaping the future of cloud API's. **[5]**

OR

c) Case study:

A logistics company named logichain managed thousands of daily deliveries across multiple cities. The company relied heavily on its delivery management software to optimize routes, track drivers and estimate delivery times

i) Now they needed more accurate route optimization and mapping solution, which google maps offered through API's. **[5]**

ii) Which multi-cloud logistics migration management using can better provide the solution. **[5]**



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