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| **C:\Users\ADMIN\Desktop\j.png** | **JAIPURIA INSTITUE OF MANAGEMENT, INDORE**Post Graduate Diploma in Management (2023-25) |
| **Course Title: Cloud Computing, (Course Code:) 40836****End-Term Examination, Term - VI (April, 2025)**  |
|  **Time Duration : 2 Hours Total Marks: 40** |

***General Instructions*:**

1. *Answer the questions as directed. The break-up of the marks is given wherever necessary.*
2. *Marks against each question is indicated to its right.*
3. *Answer all the questions of a ‘Section/Question’ at one place in continuation.*
4. *Answers should be brief and to the point.*
5. *Do not write on the question paper except your roll number.*

**Make suitable assumption, wherever required.**

**SECTION - A**

Q1. "Global Retail Corp" is a large, multinational retail company facing challenges with its traditional IT infrastructure. During peak shopping seasons (like holidays), their systems struggle to cope with demand, leading to slowdowns and potential outages. They also find it difficult and time-consuming to roll out new features for their e-commerce platform and supply chain management systems. To address these issues, the leadership team is exploring cloud solutions, specifically aiming for enhanced resilience (to handle demand spikes) and greater feature flexibility (to innovate faster).

Based on the caselet above:

* **Explain** the fundamental concepts behind the main Cloud Computing service models: Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS).
* **Analyze** the strategic advantages each of these service models could offer Global Retail Corp in achieving its goals of enhanced resilience and feature flexibility.

  **(2 x5 = 10 Marks)**

Q2 As a Cloud Strategy Consultant, you are advising a medium-sized financial services firm looking to modernize its legacy applications. The firm is considering migrating parts of its infrastructure to the cloud to improve scalability and reduce operational overhead, primarily focusing on Infrastructure as a Service (IaaS). **Develop** a concise report for the firm's IT leadership (including the CIO and Infrastructure Managers) outlining the key benefits and potential risks/challenges of adopting an IaaS model in their specific context. Provide clear recommendations. **(10 Marks)**

Q3. "MediCare Solutions" is a network of clinics and hospitals situated at Hyderabad, experiencing rapid growth. Managing increasing patient records, scheduling appointments efficiently, and offering modern services like remote consultations (telemedicine) are becoming challenging with their current on-premises IT systems. They often face high IT maintenance costs and struggle to quickly adapt to changing patient needs. Ensuring their services are always available and meeting data residency regulations (keeping data within specific geographic boundaries like India) are top priorities. The management is considering using **Amazon Web Services (AWS)** cloud platform to potentially overcome these hurdles. They know AWS has data centers grouped into **Regions** worldwide and within those regions, multiple **Availability Zones** to ensure services keep running even if one location has issues.

As a management consultant advising MediCare Solutions, address the following based on the caselet:

1. **Explain** in business terms how using AWS, including its structure of **Regions** and **Availability Zones**, could help MediCare Solutions ensure their services are reliable and handle growth (scalability).
2. **Discuss** the key business benefits AWS could offer in improving patient experience (e.g., through reliable systems, enabling telemedicine).
3. From a management perspective, what are the major risks or concerns (especially regarding data privacy and security regulations) that MediCare Solutions should consider before adopting AWS?
4. What key factors should the management team evaluate when deciding if the benefits of moving to AWS outweigh the risks and costs?

 **(4 x 5 = 20 Marks)**