Question 2

- 1) High reliability typically contributes to high avoilability.

 a highly reliable system typically has higher tevet

 avoilability become it fails less often and thus requires
 less doubtime for repair
- 2) openness can enhance scalability by facilitating easier
- 3) cloud computing cambe considered a form of utility computing as it Provides metered services over the internet
- 4) IoT generates big obta, fog computing Processes this data locally to manage it more efficiently before sending it to cloud or big data platforms
- 5) Hyperial aloud can be a form of multicloud When it involves multiple cloud services

 Public

Question 3 Windows Azure google APP Engine 11 Both are Pass commercial service 12 Both offer scalability, allowing app to scale on demand 131 they support multiple Programming languages and Frame Works integrates with 3003 le cloud azure integrates deeply Services and APIS With Microsoft Products and services like 591 detationse server offers a border range Focuses on Providing a fully of deployment options managed environment For Web APPS

Both bring computational resources closer to end.
users to reduce latency

Both aim to support real time or near real time apps by minimizing the distance data must travel

- on mobile users needs of apps across different tires
- Single tire, Small. Scale cloud data centers
- -include multipletires, each with distinct roles in data Processing and management
- specifically address user focuses on the hierarchical
 - mobility With UM handoff distribution of computing resources Without explict mobility

Dicty Pages Page Fault Pages changed While occrus when UM trying to UM live migration access Page at the target in memory transfer and the Page hasnot let be transferred are flagged during copy triggered by memory access operations Wan required data is not in RAM 13 Both are related to memory management in UM 12) they involve the handling of Pages in Virtual memory system Pord Full A Host os exist No host os Run on traditional os als _sits directly on top of other Processes hardware bare Hosted hypervisor - called baremetal they abstract the hardware to Provide isolated

environments for different as

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Data locality computing locality make the next data that refors to the concept of Processing data as close to its source or destination the Processor Will need Very close toit as Possible Arrange the Storage to increase CPU locality Both aims to optimize Performance and efficiency in Computing systems