C1.1 – 1.2 Online Systems

Class Tasks

Mark Scheme

# Class Task 1 – Cloud Concepts

## Question 1.1

What is the cloud? (***3 marks***)

The cloud is a physical collection of servers (1) contained in a building located somewhere on the planet (1) accessed using the internet / HTTPS (1)

The cloud is a physical collection of servers (1) containing applications and data (1) accessed using the internet / HTTPS (1)

## Question 1.2

Name the **two** parts of the HTTP protocol (***2 marks***)

HTTP Request (1)

HTTP Response (1)

## Question 1.3

Describe how cloud services are accessed? (**4 marks**)

A client / subscriber makes a cloud service request over the internet / HTTPS (1)

The cloud service request is received by the cloud server / queued on the cloud server (1)

The service request is processed (by the cloud server) (1)

The response is delivered to the client / subscriber (across the internet) (1)

## Question 1.4

## Question 1.5

## Question 1.6

## Question 1.7

## Question 1.8

## Question 1.9

## Question 1.10

## Question 1.11

## Question 1.12

## Question 1.13

# Class Task 2 – Cloud Delivery Models

## Question 2.1

## Question 2.2

## Question 2.3

## Question 2.4

## Question 2.5

## Question 2.6

## Question 2.7

## Question 2.8

# Class Task 3 – Impact of Cloud Services

## Question 3.1

## Question 3.2

## Question 3.3

## Question 3.4

# Exam Style Questions

## Question 1

Explain ***two*** advantages of cloud storage for a business? (***4 marks***)

|  |  |
| --- | --- |
| **Answer** | **Mark** |
| Award **one** mark for identification and **one** mark for an appropriate linked explanation/expansion up to a **maximum of four marks**.   * The business will be able to save money / (1) because there is less need (to purchase) storage servers (1) * It will support remote working / hybrid working / working from home (1) because resources can be accessed from anywhere (where there is an internet connection) (1) * The business will be able to save money (1) because smaller capacity devices are required for their employees (1) * The business will be able to reduce their carbon footprint / save money on energy costs (1) because fewer data servers will require power and cooling (locally) (1) * The business should have more reliable or robust data (1) because all backups should happen automatically (1)   **Accept any other appropriate/alternative response** | **(4)** |

## Question 2

Explain what is meant *Cloud Storage with local synchronisation* and how this can benefit a business. (***4 marks***)

|  |  |
| --- | --- |
| **Answer** | **Mark** |
| Award **one** mark for identification and **one** mark for an appropriate linked explanation/expansion for a description and a benefit up to a **maximum of four marks**.  **Description**  Cloud storage is where a copy of the (organisation’s) data (1) is kept on the local machine (1) and then changes are copied to the cloud (1)  **Benefits**   * In non-synchronised storage if the internet connection fails (1) and organisation will lose all access to its data (1) * In synchronised storage if an internet connection fails (1) an organisation can still access it’s data locally / keep working (1) * When the internet connection is restored (1) the changes are copied / synchronised back to the cloud (1)   **To gain the marks, candidates must have the concept of a copy of the data is kept on the local machine.**  **Accept any other appropriate/alternative response** | **(4)** |

## Question 3

## Question 4

## Question 5

## Question 6

## Question 7

## Question 8

## Question 9

## Question 10

## Question 11

## Question 12

## Question 13

## Question 14

## Question 15

## Question 16

## Question 17

## Question 18

*Logo, company name

Description automatically generated*

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