

**Cambridge Technicals
IT**

Unit: **Cloud Technology**

Level 3 Cambridge Technical in IT

Mark Scheme for June 2022

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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Question	Answer	Marks						
1	D - It is widely accessible	1						
2	A - Allows additional resources to be provisioned automatically	1						
3	C - Pay as you grow	1						
4	A - Cloud bursting	1						
5	B - Cloud service provider is responsible for the maintenance C - Hosted by a single cloud service provider E - Used by multiple organisations	1						
6	True	1						
7	A - A collection of resources that can be managed as a single unit	1						
8	A - Business growth is uncertain D - They will not need to spend any money on IT infrastructure	1						
9	False	1						
10	C - 2, 3 and 4	1						
11	A - The data is too sensitive to be placed in a cloud environment	1						
12	B - The health service has made considerable investment in its own IT infrastructure	1						
13	<table border="1"> <thead> <tr> <th>Cloud</th> <th>On-Premises</th> <th>Both</th> </tr> </thead> <tbody> <tr> <td>E</td> <td>B D</td> <td>A C</td> </tr> </tbody> </table>	Cloud	On-Premises	Both	E	B D	A C	1
Cloud	On-Premises	Both						
E	B D	A C						
14	C - Monitoring cloud resources	1						

Question	Answer	Marks						
15	C - 2, 3 and 4	1						
16	<table border="1" data-bbox="315 312 1249 485"> <thead> <tr> <th data-bbox="315 312 663 347">Cloud Technology</th> <th data-bbox="663 312 947 347">Outsourcing</th> <th data-bbox="947 312 1249 347">Both</th> </tr> </thead> <tbody> <tr> <td data-bbox="315 347 663 485">A</td> <td data-bbox="663 347 947 485"></td> <td data-bbox="947 347 1249 485">B C D E</td> </tr> </tbody> </table>	Cloud Technology	Outsourcing	Both	A		B C D E	1
Cloud Technology	Outsourcing	Both						
A		B C D E						
17	B - 1, 3 and 4	1						
18	A - Purchase of additional servers	1						
19	A - Time from initial idea to availability for end user	1						
20	A - It allows end users to download anytime	1						
21	<p>Accuracy - The data is error free</p> <p>Consistency - Where multiple copies of the data are stored, they are the same</p> <p>Validity - Data is sensible, reasonable and meets data input rules</p>	1						
22	<p>A - It can improve security as you can see who is accessing what data</p> <p>B - It can increase accessibility as frequently accessed data can be made easier to locate</p> <p>C - It can reduce costs as data that is not used can be removed</p>	1						
23	False	1						
24	<p>A - Hard disk</p> <p>C - Server</p> <p>D - Switch</p>	1						
25	D - Developers do not need to worry about the infrastructure prior to development	1						

Question	Answer	Marks						
26	The service designed around the needs of the user has dynamic content. This means that the more you use it the more it will adjust to you without any manual customisations.	1						
27	C - PaaS	1						
28	B - IaaS	1						
29	D - XaaS	1						
30	IaaS - Manages the physical processing PaaS - Pre-configures the platform SaaS - Implements and manages the cloud service	1						
31	B - PaaS	1						
32	A - CPU C - Memory D - Storage	1						
33	B - IaaS	1						
34	A - A platform that allows the organisation to access applications	1						
35	IaaS - Access to the virtualised infrastructure PaaS - Access to the IT resources relevant to the platform they are using SaaS - Access to the front end user interface only	1						
36	<table border="1" data-bbox="315 1201 1249 1342"> <thead> <tr> <th data-bbox="315 1201 663 1236">Develop application</th> <th data-bbox="663 1201 945 1236">Use application</th> <th data-bbox="945 1201 1249 1236">Both</th> </tr> </thead> <tbody> <tr> <td data-bbox="315 1236 663 1342"></td> <td data-bbox="663 1236 945 1342">C</td> <td data-bbox="945 1236 1249 1342">A B</td> </tr> </tbody> </table>	Develop application	Use application	Both		C	A B	1
Develop application	Use application	Both						
	C	A B						

Question	Answer	Marks
37	D - Technical	1
38	B - Project management	1
39	D - Vendor management	1
40	B - Data integration	1
41	A - Business and financial	1
42	C - Security and compliance	1
43	A - QoS	1
44	C - Multifactor Authentication (MFA) D - Token E - Username and password	1
45	B - Portability C - Rapid deployment D - Shared resources	1
46	Cloud orchestration automates the management of computer services. It can be used to provision , deploy and start servers. There are three main attributes of cloud orchestration – service, workload and resource orchestration.	1
47	1 Power comes from national grid 2 Power comes via diesel/gas backup generator 3 Power comes via transformer 4 Power comes through the main distribution board 5 Power comes through the uninterrupted power supply 6 Power delivered to end device	1
48	False	1

Question	Answer	Marks
49	D - Versioning	1
50	B - The file can be edited via the browser	1
51	True	1
52	A - 1, 2 and 3	1
53	1 Select your preferred device 2 Order hard drive 3 Power up device when it arrives 4 Connect to your LAN 5 Transfer data 6 Return the device to AWS	1
54	A - Allows for an increase in computing power as demand increases B - Allows storage to rapidly increase or decrease meaning the business is only paying for what is needed when needed, saving money E - Reduces initial expenditure on powerful computer equipment when the business is starting up	1
55	True	1
56	A - Identify cloud service opportunities based on business needs	1
57	D - Technical	1
58	A - Advise on application lifecycle	1

Question	Answer	Marks								
59	<table border="1" data-bbox="315 240 947 408"> <thead> <tr> <th data-bbox="315 240 663 276">Included</th> <th data-bbox="663 240 947 276">Excluded</th> </tr> </thead> <tbody> <tr> <td data-bbox="315 276 663 311">B</td> <td data-bbox="663 276 947 311">A</td> </tr> <tr> <td data-bbox="315 311 663 346">E</td> <td data-bbox="663 311 947 346">C</td> </tr> <tr> <td></td> <td data-bbox="663 346 947 381">D</td> </tr> </tbody> </table>	Included	Excluded	B	A	E	C		D	1
Included	Excluded									
B	A									
E	C									
	D									
60	A - Mean time to repair	1								
61	C - Individuals cannot make changes on their own	1								
62	B - A list of disasters the client will be informed about	1								
63	D - So the customer knows who is using their data	1								
64	B - The customer of the cloud provider	1								
65	False	1								
66	B - Appropriate safeguards are in place C - Standard Contractual Clauses exist with the receiving organisation D - The receiving organisation is in a country that is covered by UK 'adequacy regulations'	1								
67	True	1								
68	D - Making sure the data is not repeated	1								
69	False	1								
70	D - Multiple customers share the same resources	1								

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