

| Examiner Report | |
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| Qualification Name | Higher Education Qualification |
| Qualification Level | Diploma |
| Date/ Series | April 2024 |
| Module | Web Application Development |
| Question no. | comments |
| A1 | <p>Only half the candidates attempted this question, and the average mark just over the pass mark. Candidates were generally familiar with the generations of web technologies but were sometimes less confident in describing their key characteristics.</p> <p>They were far less confident of the differences between ECMA and JavaScript and few correctly identified the new Array method. Candidates generally explained the client-server architecture adequately, but there were some serious errors, such as providing a direct link from a database to the client without going through the server. The two processes connecting client and server would be sockets and RPCs.</p> |
| Question no. | comments |
| A2 | <p>All candidates attempted this question, and the marks spread across the whole range. Overall, the average was typical of recent years. Candidates generally recognised the back end as server side together with database and other connected systems.</p> <p>Any suitable testing methods were accepted so long as their applicability was described. Any reasonable description of hypothesis-based testing was accepted, again so long as its applicability was described.</p> |
| Question no. | comments |
| A3 | <p>This question was attempted by almost all candidates and marks over the full range were awarded. The average mark was a little lower than QA2, but still acceptably in range.</p> <p>Part a seemed to cause confusion to some candidates. The problems expected were those which are generally associated with security issues such as buffer overflow etc. that can be initiated from client-side interactions, rather than general programming issues. There was a general understanding of web analytics but the quality of the descriptions varied. Most candidates listed</p> |

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| | various web analytic tools without describing what they are used to analyse if they analyse anything at all. There was quite a lot of repetition here. |
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| B4 | This question was relatively well answered with many candidates being able to give examples. However, candidates confused question a and question b. Both questions asked for examples. |
| Question no. | comments |
| B5 | This question was poorly answered, with candidates seeming to know the components of a microservice system but unable to describe them the key design principles. |
| Question no. | comments |
| B6 | Most candidates could describe the inappropriate content, but many would have scored higher if they had made technique reference to the measure and provide examples of how effective those measurement are. |