Section B
Answer Section B questions in Answer Book B

B4.

a) Explain the difference between SQL and NoSQL databases with examples of where each are the most appropriate to use. (10 marks)

b) Evaluate the difference between ACID and eventually consistent transactions, giving examples of where the use of each is appropriate. (15 marks)

B5.

a) What is meant by Web Analytics and why is it important in maintaining the health of a website? (10 marks)

b) What is meant by on-site and off-site analytics? Assess the metrics that each analyses and indicate their most appropriate use. (15 marks)

B6.

a) Explain the difference between front-end and back-end technologies. (6 marks)

b) Describe the THREE major parts of a back-end application. (9 marks)

c) Discuss the criteria that you would use to evaluate which back-end framework to adopt when starting a new project. (10 marks)

END OF EXAMINATION
A1. Explain the purpose of Document Object Model for web applications and list FIVE examples. (10 marks)

b) Show how you would use the object-fit property to resize an image or video to fit in a container. (5 marks)

c) For the following events state their meaning in HTML 5.
   i. onafterprint
   ii. onbeforeprint
   iii. onbeforeonload
   iv. onerror
   v. onhaschange
   vi. onload
   vii. onmessage
   viii. onoffline
   ix. ononline
   x. onpagehide

(10 marks)

A2.

a) Give FOUR steps for implementing Flux into web applications. (4 marks)

b) Briefly list FIVE advantages of using Flux. (5 marks)

c) Explain THREE differences between a web server and an application server. (15 marks)

d) Give an example of how an application server is used in the real world. (1 mark)

A3. REACTJ is developed by Facework to build FLUX based web applications.

a) List FIVE benefits of using the React library. (5 marks)

b) List FIVE popular websites that are powered by the React library. (5 marks)

b) Explain what Stylus is in THREE sentences. (5 marks)

c) Explain the basic stages of version control and list THREE version control tools. (10 marks)

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