BCS THE CHARTERED INSTITUTE FOR IT

BCS HIGHER EDUCATION QUALIFICATIONS BCS Level 5 Diploma in IT

WEB APPLICATION DEVELOPMENT

Monday 25th April 2022 - Morning

Answer any FOUR questions out of SIX. All questions carry equal marks.

Time: TWO hours

Answer any <u>Section A</u> questions you attempt in <u>Answer Book A</u> Answer any <u>Section B</u> questions you attempt in <u>Answer Book B</u>

The marks given in brackets are **indicative** of the weight given to each part of the question.

Calculators are **NOT** allowed in this examination.

Section A Answer Section A questions in Answer Book A

A1.			B4.	
a)	Use a diagram to illustrate the FOUR phases of the double diamond mode	el. (10 marks)	a)	Explain what is meant by a 'content deliv
b)	For each of the phases you have identified in your answer to part a), list the techniques you could use when designing a web page.	ne (15 marks)	,	Describe FOUR examples of the use of content more effectively.
A2.			В5.	
a)	State FOUR values which underpin agile software development methods.	(8 marks)	a)	Compare and contrast front-end and bac
b)	In the context of agile methods, what is a user story?	(5 marks)		Describe in detail, with examples, THRE the development of web applications. At back-end technology.
C)	· · · · · · · · · · · · · · · · · · ·	(12 marks)		
A3.			B6.	
	List FIVE common features found in sematic web applications.	(15 marks)	a)	Explain the term 'cyber security threat'.
b)	Discuss the contribution the semantic web could make to the development	. ,		Describe FOUR examples of such threat mitigate against them.
	systems or intelligent assistants.	(10 marks)		

End of Examination

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Section B Answer Section B questions in Answer Book B

ent delivery network'.

(9 marks)

e use of content delivery networks to deliver web

(16 marks)

and back-end development of web applications. (10 marks)

s, **THREE** technologies which are commonly used in tions. At least one should be a front-end and one a

(15 marks)

(5 marks)

ch threats and explain how a web designer might

(20 marks)