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**Pearson BTEC
Level 3 Award**

Centre Number

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Learner Registration Number

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**Sample assessment material for first teaching
March 2019**

Time: 35 minutes

Paper Reference **XXXXX/XX**

Principles of Coding

You do not need any other materials.

Total Marks

THIS PAPER WILL BE CONVERTED INTO AN ONSCREEN TEST

THE LIVE VERSION OF THIS PAPER WILL CONTAIN A TOTAL OF 20 QUESTIONS

THE SAMPLE ASSESSMENT MATERIALS WILL CONTAIN A TOTAL OF 9 QUESTIONS

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Answer ALL questions.

Some questions must be answered with a cross . If you change your mind about an answer, put a line through the box and then mark your new answer with a cross .

1 Here is an example algorithm.

```
IF X = 5 THEN
    OUTPUT "Correct"
ELSE
    OUTPUT "Incorrect"
END IF
```

Which of these describes the structure of the algorithm?

(1)

Select **one** option.

- A Selection
- B Iteration
- C Sequence
- D Variation

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2 Which of these languages uses 'tags' to format the content of a webpage?

(1)

Select **one** option.

- A HTML
- B Java
- C ASP
- D PHP

3 A digital marketer is searching a database to find a list of female customers over the age of 25.

Which of these logical statements would extract the correct data?

(1)

Select **one** option.

- A Gender = Female AND Age = 25
- B Gender = Female AND Age < 25
- C Gender = Female OR Age > 25
- D Gender = Female AND Age > 25

4 Which of these components defines the method and language to transmit data across the Internet?

(1)

Select **one** option.

- A Servers
- B Protocols
- C Clients
- D Nodes



5 Identify the protocol that would be used for a webpage that requires a user to submit sensitive data? (1)

Select **one** option.

- A DNS
- B FTP
- C HTTPS
- D VoIP

6 An organisation wants to personalise its website for each visitor. Why should they use cookies? (1)

Select **one** option.

- A To allow the visitor to log in to check previous orders
- B To adapt the webpage to fit on a mobile device
- C To match advertisements to visitor's search history
- D To provide an online chat feature with customer support

7 Which of these Content Management Systems allows access to multimedia on a single central system? (1)

Select **one** option.

- A Digital Asset
- B Web
- C Enterprise
- D Data analytics

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8 Which of these is a characteristic of ASP.Net?

(1)

Select **one** option.

- A Process server-side requests
- B Shares page formatting across all pages of a site
- C Creates self-contained web apps
- D Produces dynamic content for web pages

9 A digital marketer compresses an image using lossy compression, this removes the metadata from the image.

Which of these pieces of information will be lost?

(1)

Select **one** option.

- A The size of the file
- B The location of the image
- C The file type used
- D The bit depth

TOTAL FOR PAPER = 9 MARKS



Principles of Coding marking scheme

Question Number	Answer	Mark
1	A – Selection	(1)

Question Number	Answer	Mark
2	A - HTML	(1)

Question Number	Answer	Mark
3	D – Gender = Female AND Age > 25	(1)

Question Number	Answer	Mark
4	B – Protocols	(1)

Question Number	Answer	Mark
5	C – HTTPS	(1)

Question Number	Answer	Mark
6	C – Match advertisements to visitor’s search history	(1)

Question Number	Answer	Mark
7	A – Digital Asset	(1)

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Question Number	Answer	Mark
8	A – Process server-side requests	(1)

Question Number	Answer	Mark
9	B – The location of the image	(1)

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