

Surname	Centre Number	Candidate Number
First name(s)		2



GCE A/AS LEVEL

2509U10-1



MONDAY, 3 JUNE 2024 – MORNING

BUILT ENVIRONMENT – AS Unit 1 Our Built Environment

2 hours

For Examiner's use only		
Question	Maximum Mark	Mark Awarded
1.	8	
2.	6	
3.	12	
4.	20	
5.	4	
6.	14	
7.	4	
8.	4	
9.	8	
Total	80	

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions.

Write your answers in the spaces provided in this booklet. If you run out of space, use the additional page(s) at the back of the booklet, taking care to number the question(s) correctly.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question. You are advised to divide your time accordingly.

The total number of marks available is 80.

You are reminded of the necessity for good English and orderly presentation in your answers.

The quality of your written communication, including appropriate use of punctuation and grammar, will be assessed in your answer to Question 4(a).



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Answer **all** questions.

1. (a) Describe the term “building life cycle”. [4]

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(b) Outline **two** activities which take place during the operation stage of the life cycle of a building. [4]

(i) Activity 1:

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(ii) Activity 2:

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2. (a) Describe the role of an architect.

[2]

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(b) Outline **two** benefits of Royal Institute of British Architects (RIBA) membership for an architect.

[4]

(i) Benefit 1:

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(ii) Benefit 2:

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(b) Describe the most suitable intermediate floor construction for the building. [2]

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(c) Describe **two** types of suitable cladding for the building. [4]

(i) Cladding type 1:

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(ii) Cladding type 2:

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(d) Describe the services requirements for commercial buildings.

[6]

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5. State **two** possible advantages and **two** possible disadvantages of using prefabricated building methods.

[4]

(a) Advantages

(i)

(ii)

(b) Disadvantages

(i)

(ii)



(b) Describe issues of material compatibility that may arise when extending an existing building. [6]

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7. Describe the installation and positioning of water supply pipework within footpaths and/or roads. [4]

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8. Outline **two** functions and/or services provided by the local authority planning department. [4]

(i) Function/service 1:

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(ii) Function/service 2:

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