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Answer ALL the questions in the spaces provided.

1. You have just started your new job in construction and have been placed in the human resources department to learn about different job roles.

In the table below, indicate which of the job roles identified are classified as professional roles by placing a cross (☒) in the correct boxes. You should place a cross in **five** boxes only.

A	Structural Engineer	<input type="checkbox"/>
B	Carpenter	<input type="checkbox"/>
C	Thatcher	<input type="checkbox"/>
D	Civil Engineer	<input type="checkbox"/>
E	Quantity Surveyor	<input type="checkbox"/>
F	Plumber	<input type="checkbox"/>
G	Building Surveyor	<input type="checkbox"/>
H	Architect	<input type="checkbox"/>
I	Operative	<input type="checkbox"/>
J	Bricklayer	<input type="checkbox"/>

(Total 5 marks)

Q1



2. You are now working in the design office and are consulting with the sustainability officer.

Place a cross (☒) in the box next to the correct word to complete each of the following sentences.

(a) One way of preserving resources for future generations is to use timber from _____ forests.

A	large	<input checked="" type="checkbox"/>
B	managed	<input checked="" type="checkbox"/>
C	rain	<input checked="" type="checkbox"/>

(1)

(b) _____ is about using energy and resources in a way that will help to preserve them for future generations.

A	Sustainability	<input checked="" type="checkbox"/>
B	Effectiveness	<input checked="" type="checkbox"/>
C	Carpentry	<input checked="" type="checkbox"/>

(1)

(c) To improve sustainability, materials for construction projects should be purchased _____ wherever possible.

A	cheaply	<input checked="" type="checkbox"/>
B	locally	<input checked="" type="checkbox"/>
C	internationally	<input checked="" type="checkbox"/>

(1)



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(d) Minimising _____ on a construction project can help to reduce the environmental impact.

A	costs	<input type="checkbox"/>
B	labour	<input type="checkbox"/>
C	waste	<input type="checkbox"/>

(1)

(e) Modern construction plant helps to _____ the time that is required to complete construction activities.

A	reduce	<input type="checkbox"/>
B	increase	<input type="checkbox"/>
C	lengthen	<input type="checkbox"/>

(1)

Q2

(Total 5 marks)



3. You are spending some time working with the buyer in order to learn about different materials and components.

Below are images of different building materials/components. Identify each material/component by placing a cross (☒) in the box next to each correct answer.

(a)



A	Concrete blocks	<input checked="" type="checkbox"/>
B	Concrete slabs	<input checked="" type="checkbox"/>
C	Concrete lintels	<input checked="" type="checkbox"/>

(1)

(b)



A	MDF	<input checked="" type="checkbox"/>
B	Gravel	<input checked="" type="checkbox"/>
C	Cement	<input checked="" type="checkbox"/>

(1)

(c)



A	Air brick	<input checked="" type="checkbox"/>
B	Engineering brick	<input checked="" type="checkbox"/>
C	Facing brick	<input checked="" type="checkbox"/>

(1)



(d)



A	Concrete brick	<input checked="" type="checkbox"/>
B	Engineering brick	<input checked="" type="checkbox"/>
C	Air brick	<input checked="" type="checkbox"/>

(1)

(Total 4 marks)

Leave
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Q3



H 3 5 7 4 7 A 0 7 2 8

7

Turn over

4. You are now working in the construction department to broaden your general construction knowledge.

Place a cross (☒) in the box next to the correct word to complete each of the sentences below.

(a) Forklifts, dumpers, cranes and excavators are all types of construction _____.

A	components	<input type="checkbox"/>
B	tools	<input type="checkbox"/>
C	plant	<input type="checkbox"/>

(1)

(b) Modern dwellings usually have _____ walls.

A	cavity	<input type="checkbox"/>
B	thick	<input type="checkbox"/>
C	solid	<input type="checkbox"/>

(1)

(c) A common material used for damp-proof courses is _____.

A	fibreglass	<input type="checkbox"/>
B	plywood	<input type="checkbox"/>
C	PVC	<input type="checkbox"/>

(1)

(d) A _____ chart is often used for planning construction projects.

A	pie	<input type="checkbox"/>
B	Gantt	<input type="checkbox"/>
C	flow	<input type="checkbox"/>

(1)



Leave blank

(e) Concrete framed structures can be in-situ or pre-_____.

A	poured	<input checked="" type="checkbox"/>
B	delivered	<input checked="" type="checkbox"/>
C	cast	<input checked="" type="checkbox"/>

(1)

Q4

(Total 5 marks)



Leave blank

5. Assisting the site manager you have been asked to identify materials for delivery to site for a number of construction activities.

Below, on the left is a list of materials and on the right is a list of locations where they are commonly used. Link the material on the left with the location on the right by drawing a straight line. Each location may only be used **once**.

Material	Location
Plasterboard	External walls
Concrete	Skirting boards
Facing bricks	Stud walls
Copper pipe	Windows
MDF	Foundations
	Cold water systems

(Total 5 marks)

Q5



Leave
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6. You are now back in the human resources department and are learning more about different job roles.

Below, on the left is a list of construction job classifications and on the right is a list of jobs. Link the job classification on the left with the job on the right by drawing a straight line. Each classification has only **one** job.

Job classification

Job

Professional

Carpenter

Craft

Labourer

Specialist trade

Quantity Surveyor

Supervisory

Site Manager

Operative

Buyer

Steeplejack

(Total 5 marks)

Q6



Leave
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7. Whilst working with the sustainability officer you have been asked to explore the reuse and recycling of materials.

In the table below, place a cross (☒) in the correct box to indicate whether each material is classified as reclaimable, recyclable or both.

	(i) Reclaimable	(ii) Recyclable	(iii) Both
(a) Timber	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(b) In-situ concrete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(c) Bricks	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Q7

(Total 3 marks)



Leave blank

8. Working with the plant manager you are learning about different tools and equipment.

Below, on the left is a list of tools/equipment and on the right is a list of types. Link the tool/equipment on the left with the type on the right by drawing a straight line. Each type can be used **more than once**.

Tool / Equipment

Type

Forklift truck

Hand tools

Jack plane

Tower crane

Portable power tools

Cherry picker

Plant

Angle grinder

Q8

(Total 5 marks)



9. Whilst updating your work diary, you are reflecting on the knowledge you have gained so far.

Place a cross (☒) in the box next to the correct word or number to complete each of the sentences below.

(a) Approximately _____ people are employed in the construction industry in the UK.

A	3,500,000	<input checked="" type="checkbox"/>
B	900,000	<input type="checkbox"/>
C	2,400,000	<input type="checkbox"/>
D	1,250,000	<input type="checkbox"/>

(1)

(b) Those wishing to work as construction professionals will typically need to be qualified to at least _____ level.

A	Intermediate	<input checked="" type="checkbox"/>
B	Foundation	<input type="checkbox"/>
C	Masters	<input type="checkbox"/>
D	Degree	<input type="checkbox"/>

(1)



Leave blank

(c) In sustainability terms, the use of _____ sites is considered good practice.

A	abandoned	<input type="checkbox"/>
B	greenfield	<input type="checkbox"/>
C	brownfield	<input type="checkbox"/>
D	contaminated	<input type="checkbox"/>

(1)

(d) Using _____ maintenance materials can help to reduce a building's long-term environmental impact.

A	high	<input type="checkbox"/>
B	low	<input type="checkbox"/>
C	easy	<input type="checkbox"/>
D	cheap	<input type="checkbox"/>

(1)

Q9

(Total 4 marks)



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10. Working in the design office you are developing your knowledge of materials and their primary functions.

In the table below you will see a list of building items. Place a cross (☒) in the correct box to indicate whether each item mainly provides shelter, insulation or aesthetics. Each item has only **one** answer.

	Shelter	Insulation	Aesthetics
(a) Masonry paint	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(b) Fibreglass	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(c) Roof tiles	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(d) External brickwork	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(e) Roofing felt	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

(Total 5 marks)

Q10



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11. The Construction Director is assessing your progress to date and you are reflecting upon your experiences so far.

Place a cross (☒) in the box next to the correct word to complete each of the following sentences.

(a) _____ could provide fire protection for structural steelwork.

A	PVC	<input type="checkbox"/>
B	MDF	<input type="checkbox"/>
C	Concrete	<input type="checkbox"/>
D	Chipboard	<input type="checkbox"/>

(1)

(b) _____ is the responsibility of everyone working on a construction site.

A	Safety	<input type="checkbox"/>
B	Design	<input type="checkbox"/>
C	Planning	<input type="checkbox"/>
D	Maintenance	<input type="checkbox"/>

(1)



Leave
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(c) _____ are necessary for the stability of a cavity wall.

A	Rafters	<input type="checkbox"/>
B	Vents	<input type="checkbox"/>
C	Windows	<input type="checkbox"/>
D	Ties	<input type="checkbox"/>

(1)

(d) One of the primary functions of the quantity surveyor is to prepare the _____ of Quantities.

A	List	<input type="checkbox"/>
B	Estimate	<input type="checkbox"/>
C	Schedule	<input type="checkbox"/>
D	Bill	<input type="checkbox"/>

(1)

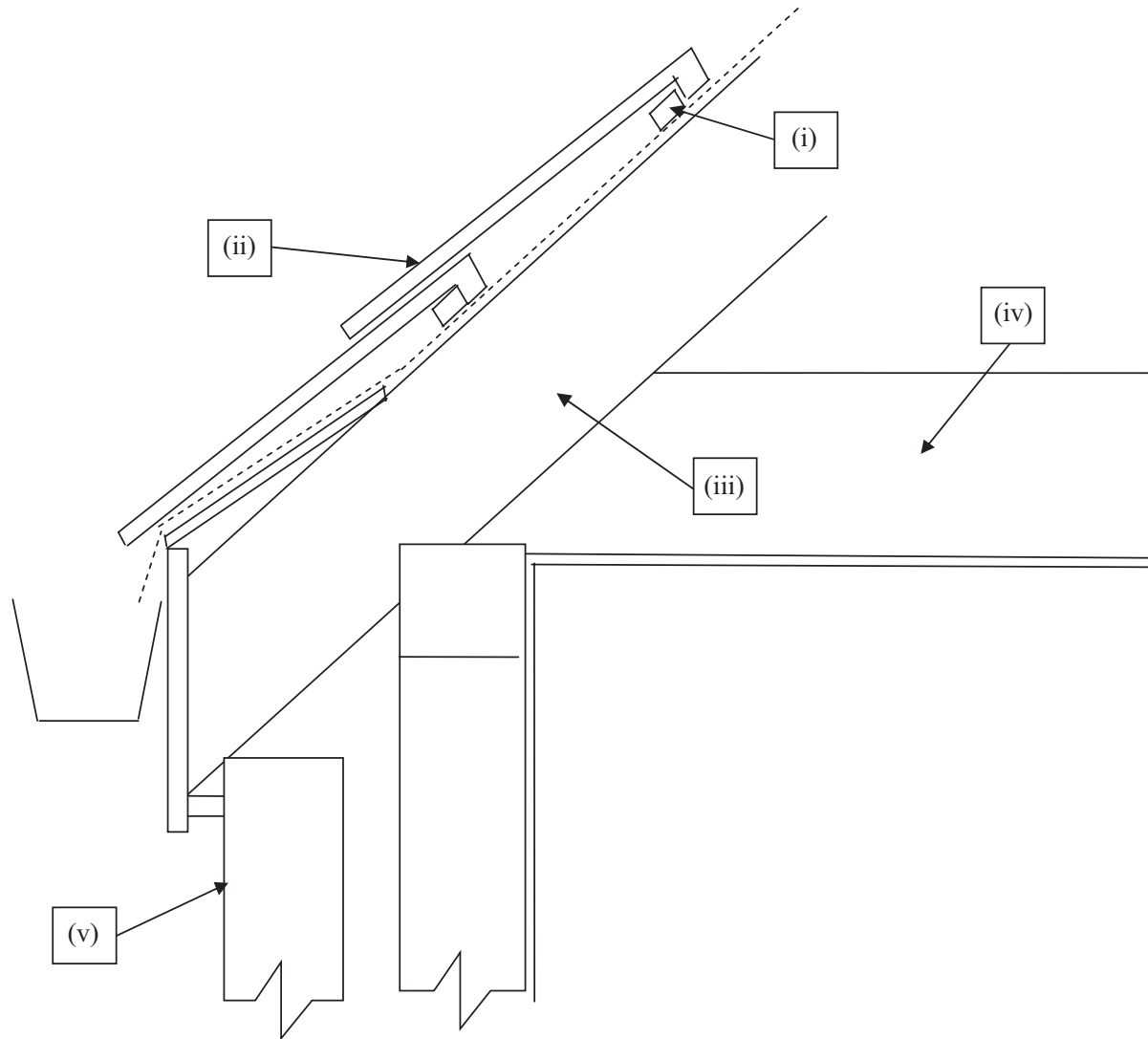
Q11

(Total 4 marks)



12. You are working in the design office and learning how to read drawings.

The diagram below shows a section through a roof. Identify the parts labelled by placing a cross (☒) next to the correct answer.



(a) Label (i) shows

A	Felt	<input type="checkbox"/>
B	Wall plate	<input type="checkbox"/>
C	Joist	<input type="checkbox"/>
D	Batten	<input type="checkbox"/>

(1)

(b) Label (ii) shows

A	Soffit	<input type="checkbox"/>
B	Tiles	<input type="checkbox"/>
C	Felt	<input type="checkbox"/>
D	Rafter	<input type="checkbox"/>

(1)

(c) Label (iii) shows

A	Rafter	<input type="checkbox"/>
B	Joist	<input type="checkbox"/>
C	Purlin	<input type="checkbox"/>
D	Wall plate	<input type="checkbox"/>

(1)



Leave
blank

(d) Label (iv) shows

A	Purlin	<input type="checkbox"/>
B	Rafter	<input type="checkbox"/>
C	Joist	<input type="checkbox"/>
D	Wall plate	<input type="checkbox"/>

(1)

(e) Label (v) shows

A	Internal wall skin	<input type="checkbox"/>
B	External wall skin	<input type="checkbox"/>
C	Wall plate	<input type="checkbox"/>
D	Joist	<input type="checkbox"/>

(1)

Q12

(Total 5 marks)



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13. You are working in the planning department to develop an understanding of the sequencing of construction operations.

The chart below shows the different stages in a framed building. Identify the **five** missing stages by placing a cross (☒) next to the correct words in the following tables.

Stage	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct
1. Site set up										
2.										
3. Concrete to foundations										
4.										
5. Cladding and roofing										
6.										
7. Internal walls and partitions										
8. First fix										
9. Plastering and dry lining										
10.										
11. Decorations										
12.										
13. Snagging and handover										



(a) Stage 2 is:

A	Excavations	<input checked="" type="checkbox"/>
B	Erect steel frame	<input checked="" type="checkbox"/>
C	Brickwork to external walls	<input checked="" type="checkbox"/>
D	Second fix	<input checked="" type="checkbox"/>
E	External works and drainage	<input checked="" type="checkbox"/>

(1)

(b) Stage 4 is:

A	External works and drainage	<input checked="" type="checkbox"/>
B	Second fix	<input checked="" type="checkbox"/>
C	Erect steel frame	<input checked="" type="checkbox"/>
D	Excavations	<input checked="" type="checkbox"/>
E	Brickwork to external walls	<input checked="" type="checkbox"/>

(1)

(c) Stage 6 is:

A	Second fix	<input checked="" type="checkbox"/>
B	Brickwork to external walls	<input checked="" type="checkbox"/>
C	Excavations	<input checked="" type="checkbox"/>
D	External works and drainage	<input checked="" type="checkbox"/>
E	Erect steel frame	<input checked="" type="checkbox"/>

(1)



Leave blank

(d) Stage 10 is:

A	Erect steel frame	<input checked="" type="checkbox"/>
B	External works and drainage	<input checked="" type="checkbox"/>
C	Brickwork to external walls	<input checked="" type="checkbox"/>
D	Second fix	<input checked="" type="checkbox"/>
E	Excavations	<input checked="" type="checkbox"/>

(1)

(e) Stage 12 is:

A	Second fix	<input checked="" type="checkbox"/>
B	Brickwork to external walls	<input checked="" type="checkbox"/>
C	External works and drainage	<input checked="" type="checkbox"/>
D	Excavations	<input checked="" type="checkbox"/>
E	Erect steel frame	<input checked="" type="checkbox"/>

(1)

Q13

(Total 5 marks)

TOTAL FOR PAPER: 60 MARKS

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