

Write your name here

Surname

Other names

**Edexcel
Principal Learning**

Centre Number

Candidate Number

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Construction and the Built Environment

Level 2

Unit 4: Create the Built Environment: Structures

Tuesday 22 May 2012 – Morning

Time: 1 hour

Paper Reference

CB204/01

You do not need any other materials.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
 - there may be more space than you need.

Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets
 - use this as a guide as to how much time to spend on each question.

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

P40459A

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PEARSON

Answer ALL questions.

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

- 1 Your work as a trainee site manager means that you are involved in creating programs for construction work. The site manager has asked you to look at the pre-contract program for the service roadway to the retail units.

By interpreting the Gantt chart put a cross next to the correct answer for each question.

| | Contract | Service Road to Retail Units | | | | | | | | | | | | | |
|----------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----|----|----|
| | | 1 | | | | 2 | | | | 3 | | | | | |
| Week No | Day | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Activity | | | | | | | | | | | | | | | |
| 1 | Site set up | <input checked="" type="checkbox"/> | | | | | | | | | | | | | |
| 2 | Fencing | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | | |
| 3 | Excavate topsoil | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | | | |
| 4 | Excavation to road base | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | |
| 5 | Excavate drainage trenches | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | | | |
| 6 | Install main drain runs & backfill | | | | | | <input checked="" type="checkbox"/> | | | | | | | | |
| 7 | Install manholes | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | | |
| 8 | Spread hardcore beds | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | | |
| 9 | Excavate for kerbs | | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | |
| 10 | Install gully grates | | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | | |
| 11 | Kerb foundations | | | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 12 | | | | | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 13 | Install manhole covers | | | | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 14 | Lay road base | | | | | | | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 15 | Lay wearing course | | | | | | | | | | | <input checked="" type="checkbox"/> | | | |
| 16 | Clean & handover | | | | | | | | | | | <input checked="" type="checkbox"/> | | | |



(a) On the chart row 12 is missing, what is the fixing activity?

(1)

| | | |
|---|----------------|-------------------------------------|
| A | Fencing | <input checked="" type="checkbox"/> |
| B | White lining | <input checked="" type="checkbox"/> |
| C | Road signs | <input checked="" type="checkbox"/> |
| D | Road kerbs | <input checked="" type="checkbox"/> |
| E | Traffic lights | <input checked="" type="checkbox"/> |

(b) The main drainage pipes have been delayed from a supplier by two days.
What is the overall revised completion date?

(1)

| | | |
|---|--------------|-------------------------------------|
| A | Week 3 day 5 | <input checked="" type="checkbox"/> |
| B | Week 4 day 1 | <input checked="" type="checkbox"/> |
| C | Week 4 day 2 | <input checked="" type="checkbox"/> |
| D | Week 4 day 3 | <input checked="" type="checkbox"/> |
| E | Week 4 day 4 | <input checked="" type="checkbox"/> |

(c) The excavator breaks down and causes a half day delay.
When will the excavation to the road base be finished?

(1)

| | | |
|---|------------|-------------------------------------|
| A | Noon day 3 | <input checked="" type="checkbox"/> |
| B | Noon day 4 | <input checked="" type="checkbox"/> |
| C | Noon day 5 | <input checked="" type="checkbox"/> |
| D | Noon day 6 | <input checked="" type="checkbox"/> |
| E | Noon day 7 | <input checked="" type="checkbox"/> |



(d) Why are manhole covers installed before the road base?

(1)

| | | |
|---|---------------------------------|-------------------------------------|
| A | So kerbs can be installed | <input checked="" type="checkbox"/> |
| B | To allow drainage to flow | <input checked="" type="checkbox"/> |
| C | So tarmac can finish flush | <input checked="" type="checkbox"/> |
| D | So topsoil can be spread | <input checked="" type="checkbox"/> |
| E | To allow white line application | <input checked="" type="checkbox"/> |

(e) Bad weather and other factors have caused a **total** delay of four days.

What is the revised completion period?

(1)

| | | |
|---|---------|-------------------------------------|
| A | 16 days | <input checked="" type="checkbox"/> |
| B | 17 days | <input checked="" type="checkbox"/> |
| C | 18 days | <input checked="" type="checkbox"/> |
| D | 19 days | <input checked="" type="checkbox"/> |
| E | 20 days | <input checked="" type="checkbox"/> |

(Total for Question 1 = 5 marks)



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P 4 0 4 5 9 A 0 5 2 8

- 2** You are assisting the Site Engineer on the substructures for a housing development with the specification for the concrete to be used in the foundations.

Put a cross in the box next to the correct word(s) to complete the following sentences.

(a) The ingredient that binds the concrete mix together is:

(1)

| | | |
|---|------------------|-------------------------------------|
| A | cement | <input checked="" type="checkbox"/> |
| B | fine aggregate | <input checked="" type="checkbox"/> |
| C | coarse aggregate | <input checked="" type="checkbox"/> |
| D | water | <input checked="" type="checkbox"/> |

(b) Concrete mixed using a high water/cement ratio will be:

(1)

| | | |
|---|----------|-------------------------------------|
| A | strong | <input checked="" type="checkbox"/> |
| B | flexible | <input checked="" type="checkbox"/> |
| C | weak | <input checked="" type="checkbox"/> |
| D | dry | <input checked="" type="checkbox"/> |

(c) Steel reinforcement is added because concrete is weak in:

(1)

| | | |
|---|-------------|-------------------------------------|
| A | compression | <input checked="" type="checkbox"/> |
| B | torsion | <input checked="" type="checkbox"/> |
| C | loading | <input checked="" type="checkbox"/> |
| D | tension | <input checked="" type="checkbox"/> |

(d) Formwork is normally used to provide support to unset:

(1)

| | | |
|---|----------|-------------------------------------|
| A | render | <input checked="" type="checkbox"/> |
| B | concrete | <input checked="" type="checkbox"/> |
| C | mortar | <input checked="" type="checkbox"/> |
| D | glue | <input checked="" type="checkbox"/> |



(e) Concrete can be compacted by:

(1)

| | | |
|---|----------|-------------------------------------|
| A | tooling | <input checked="" type="checkbox"/> |
| B | brushing | <input checked="" type="checkbox"/> |
| C | ribbing | <input checked="" type="checkbox"/> |
| D | tamping | <input checked="" type="checkbox"/> |

(Total for Question 2 = 5 marks)



P 4 0 4 5 9 A 0 7 2 8

- 3** Working with the site engineer you are now starting the substructure construction for the housing development.

Put a cross in the box next to the correct word(s) to complete the following sentences.

(a) Prior to setting out you should always undertake a site:

(1)

| | | |
|---|---------------|-------------------------------------|
| A | meeting | <input checked="" type="checkbox"/> |
| B | excavation | <input checked="" type="checkbox"/> |
| C | survey | <input checked="" type="checkbox"/> |
| D | investigation | <input checked="" type="checkbox"/> |

(b) Before commencing excavation work you must be aware of the location of:

(1)

| | | |
|---|--------------------|-------------------------------------|
| A | neighbours | <input checked="" type="checkbox"/> |
| B | concrete suppliers | <input checked="" type="checkbox"/> |
| C | tips | <input checked="" type="checkbox"/> |
| D | existing services | <input checked="" type="checkbox"/> |

(c) The removal of any existing site structures is known as:

(1)

| | | |
|---|--------------------|-------------------------------------|
| A | demolition | <input checked="" type="checkbox"/> |
| B | site clearance | <input checked="" type="checkbox"/> |
| C | destruction | <input checked="" type="checkbox"/> |
| D | site stabilisation | <input checked="" type="checkbox"/> |



(d) The improvement of poor load bearing soils is known as soil:

(1)

| | | |
|---|----------------|-------------------------------------|
| A | solidification | <input checked="" type="checkbox"/> |
| B | support | <input checked="" type="checkbox"/> |
| C | stabilisation | <input checked="" type="checkbox"/> |
| D | strengthening | <input checked="" type="checkbox"/> |

(e) Raising areas below the level of excavation up to level is known as:

(1)

| | | |
|---|-------------|-------------------------------------|
| A | cutting | <input checked="" type="checkbox"/> |
| B | filling | <input checked="" type="checkbox"/> |
| C | backfilling | <input checked="" type="checkbox"/> |
| D | layering | <input checked="" type="checkbox"/> |

(Total for Question 3 = 5 marks)



P 4 0 4 5 9 A 0 9 2 8

- 4 The architect has asked you to consider the method used to transfer loads.

Put a cross in the correct box that identifies the normal method of transferring the load; lintels, wall plate, inside skin of wall or hardcore.

| | Lintels | Wall plate | Inside skin of wall | Hardcore |
|--------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Pitched roof | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Timber first floor | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Openings | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Solid ground floor | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Flat roof | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

(Total for Question 4 = 5 marks)



- 5** Working as an assistant on site you have been asked to carry out the construction plant weekly checks by the Site Manager.

Put a cross in the box next to the correct word(s) to complete the following sentences.

- (a) The photograph below shows a pump used to move:



(1)

| | | |
|---|-----------|-------------------------------------|
| A | water | <input checked="" type="checkbox"/> |
| B | mortar | <input checked="" type="checkbox"/> |
| C | cement | <input checked="" type="checkbox"/> |
| D | concrete | <input checked="" type="checkbox"/> |
| E | aggregate | <input checked="" type="checkbox"/> |



(b) The item of plant shown below is known as a:



(1)

| | | |
|---|----------------|-------------------------------------|
| A | goods lift | <input checked="" type="checkbox"/> |
| B | passenger lift | <input checked="" type="checkbox"/> |
| C | hoist | <input checked="" type="checkbox"/> |
| D | platform | <input checked="" type="checkbox"/> |
| E | chute | <input checked="" type="checkbox"/> |

(c) An item of small plant used to cut concrete blocks is known as a:

(1)

| | | |
|---|----------------|-------------------------------------|
| A | mobile saw | <input checked="" type="checkbox"/> |
| B | masonry saw | <input checked="" type="checkbox"/> |
| C | mitre saw | <input checked="" type="checkbox"/> |
| D | mechanical saw | <input checked="" type="checkbox"/> |
| E | motor saw | <input checked="" type="checkbox"/> |



(d) On a construction site, 110 volts is the normal power requirement and is achieved by using a(n):

(1)

| | | |
|---|---------------|-------------------------------------|
| A | power socket | <input checked="" type="checkbox"/> |
| B | invertor | <input checked="" type="checkbox"/> |
| C | battery | <input checked="" type="checkbox"/> |
| D | transformer | <input checked="" type="checkbox"/> |
| E | phased supply | <input checked="" type="checkbox"/> |

(e) The process used to measure concrete workability is known as a:

(1)

| | | |
|---|------------------|-------------------------------------|
| A | tension test | <input checked="" type="checkbox"/> |
| B | hardening test | <input checked="" type="checkbox"/> |
| C | compression test | <input checked="" type="checkbox"/> |
| D | compaction test | <input checked="" type="checkbox"/> |
| E | slump test | <input checked="" type="checkbox"/> |

(Total for Question 5 = 5 marks)



P 4 0 4 5 9 A 0 1 3 2 8

- 6 Internal walls are used to provide the division of the internal space within a structural form.

Put a cross in the box next to the correct word(s) to complete the following sentences.

(a) Solid internal walls are used to provide support that is:

(1)

| | | |
|---|--------------|-------------------------------------|
| A | flexible | <input checked="" type="checkbox"/> |
| B | structural | <input checked="" type="checkbox"/> |
| C | diagonal | <input checked="" type="checkbox"/> |
| D | compressible | <input checked="" type="checkbox"/> |
| E | horizontal | <input checked="" type="checkbox"/> |

(b) Compartmentalisation of internal spaces provides protection against the spread of:

(1)

| | | |
|---|-----------|-------------------------------------|
| A | vermin | <input checked="" type="checkbox"/> |
| B | vibration | <input checked="" type="checkbox"/> |
| C | damp | <input checked="" type="checkbox"/> |
| D | water | <input checked="" type="checkbox"/> |
| E | fire | <input checked="" type="checkbox"/> |

(c) Lightweight hollow partitions do **not** prevent the transfer of:

(1)

| | | |
|---|----------|-------------------------------------|
| A | moisture | <input checked="" type="checkbox"/> |
| B | sound | <input checked="" type="checkbox"/> |
| C | fire | <input checked="" type="checkbox"/> |
| D | draughts | <input checked="" type="checkbox"/> |
| E | loading | <input checked="" type="checkbox"/> |



(d) Hollow partitions allow for the provision and distribution of:

(1)

| | | |
|---|------------|-------------------------------------|
| A | sound | <input checked="" type="checkbox"/> |
| B | aesthetics | <input checked="" type="checkbox"/> |
| C | space | <input checked="" type="checkbox"/> |
| D | services | <input checked="" type="checkbox"/> |
| E | air | <input checked="" type="checkbox"/> |

(e) Dry lining of internal partitions normally involves the use of:

(1)

| | | |
|---|----------------|-------------------------------------|
| A | plasterboard | <input checked="" type="checkbox"/> |
| B | cement board | <input checked="" type="checkbox"/> |
| C | fibreboard | <input checked="" type="checkbox"/> |
| D | acoustic board | <input checked="" type="checkbox"/> |
| E | particleboard | <input checked="" type="checkbox"/> |

(Total for Question 6 = 5 marks)



P 4 0 4 5 9 A 0 1 5 2 8

- 7 The designer is considering several different options for prefabrication for a housing development.

In the left hand column is a list of types of prefabrication.

Put a cross in the box that indicates whether each type of prefabrication can be linked to brickwork, framed, both brickwork and framed or to neither.

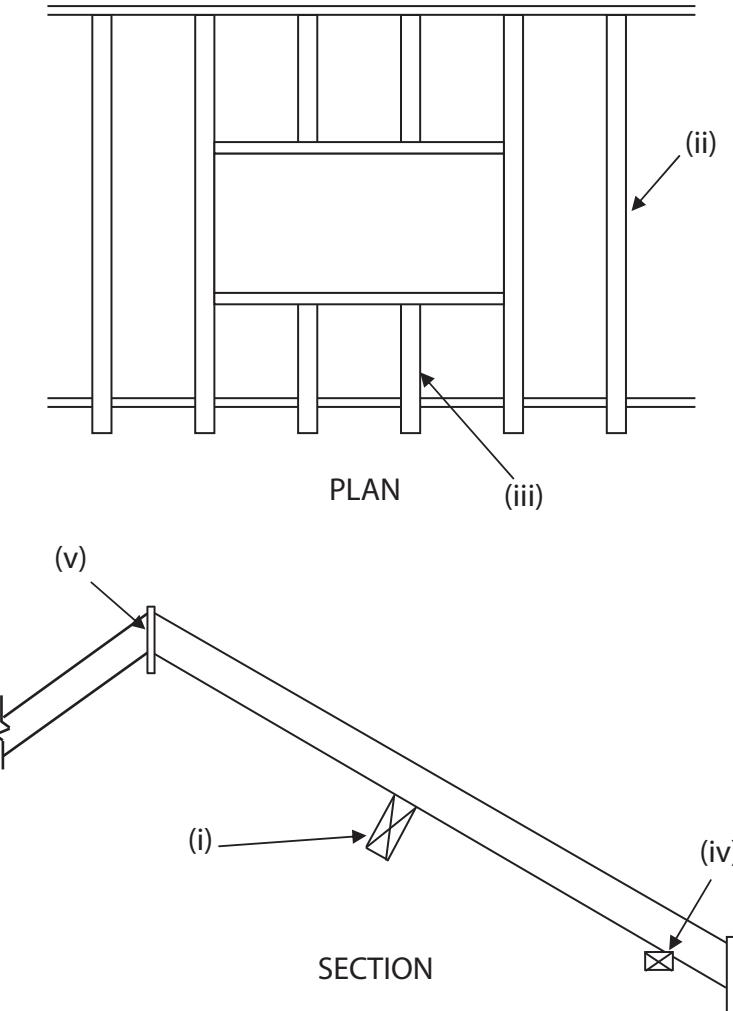
| Types of prefabrication | Brickwork | Framed | Both | Neither |
|-------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Bonded | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Steel channel | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Module | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Timber | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Steel | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

(Total for Question 7 = 5 marks)



- 8** You are assisting the quantity surveyor in working out the quantities of timber for a roof and have to identify each of the separate components on a drawing.

Identify the different parts, labelled (i) to (v), by putting a cross in the correct box.



(a) Label (i) shows a(n):

(1)

| | | |
|---|------------|-------------------------------------|
| A | I-beam | <input checked="" type="checkbox"/> |
| B | purlin | <input checked="" type="checkbox"/> |
| C | wall plate | <input checked="" type="checkbox"/> |
| D | batten | <input checked="" type="checkbox"/> |
| E | fillet | <input checked="" type="checkbox"/> |
| F | joist | <input checked="" type="checkbox"/> |



(b) Label (ii) shows what type of rafter?

(1)

| | | |
|---|--------|-------------------------------------|
| A | Common | <input checked="" type="checkbox"/> |
| B | Jack | <input checked="" type="checkbox"/> |
| C | Valley | <input checked="" type="checkbox"/> |
| D | Hip | <input checked="" type="checkbox"/> |
| E | Dormer | <input checked="" type="checkbox"/> |
| F | Gable | <input checked="" type="checkbox"/> |

(c) Label (iii) shows what type of rafter?

(1)

| | | |
|---|-----------|-------------------------------------|
| A | Short | <input checked="" type="checkbox"/> |
| B | Ceiling | <input checked="" type="checkbox"/> |
| C | Coupled | <input checked="" type="checkbox"/> |
| D | Cripple | <input checked="" type="checkbox"/> |
| E | Collar | <input checked="" type="checkbox"/> |
| F | Chiselled | <input checked="" type="checkbox"/> |

(d) Label (iv) shows a:

(1)

| | | |
|---|------------|-------------------------------------|
| A | sole plate | <input checked="" type="checkbox"/> |
| B | purlin | <input checked="" type="checkbox"/> |
| C | fascia | <input checked="" type="checkbox"/> |
| D | bearer | <input checked="" type="checkbox"/> |
| E | wall plate | <input checked="" type="checkbox"/> |
| F | batten | <input checked="" type="checkbox"/> |



(e) Label (v) shows a:

(1)

| | | |
|---|--------------|-------------------------------------|
| A | soffit | <input checked="" type="checkbox"/> |
| B | ridge board | <input checked="" type="checkbox"/> |
| C | valley board | <input checked="" type="checkbox"/> |
| D | fascia board | <input checked="" type="checkbox"/> |
| E | hip | <input checked="" type="checkbox"/> |
| F | verge | <input checked="" type="checkbox"/> |

(Total for Question 8 = 5 marks)



P 4 0 4 5 9 A 0 1 9 2 8

- 9** The housing site you are working on is using a large number of prefabricated units in its construction.

Put a cross in the box next to the correct word(s) to complete the following sentences.

- (a) The drying time involved with prefabrication is reduced because it uses less:

(1)

| | | |
|---|--------------|-------------------------------------|
| A | plasterboard | <input checked="" type="checkbox"/> |
| B | plaster | <input checked="" type="checkbox"/> |
| C | plywood | <input checked="" type="checkbox"/> |
| D | timber | <input checked="" type="checkbox"/> |
| E | DPM | <input checked="" type="checkbox"/> |
| F | insulation | <input checked="" type="checkbox"/> |

- (b) Prefabrication uses less skilled labour therefore reducing on-site:

(1)

| | | |
|---|-----------|-------------------------------------|
| A | quality | <input checked="" type="checkbox"/> |
| B | accidents | <input checked="" type="checkbox"/> |
| C | time | <input checked="" type="checkbox"/> |
| D | waste | <input checked="" type="checkbox"/> |
| E | mistakes | <input checked="" type="checkbox"/> |
| F | costs | <input checked="" type="checkbox"/> |

- (c) A prefabricated internal partition is usually:

(1)

| | | |
|---|-------------|-------------------------------------|
| A | variable | <input checked="" type="checkbox"/> |
| B | demountable | <input checked="" type="checkbox"/> |
| C | flexible | <input checked="" type="checkbox"/> |
| D | modular | <input checked="" type="checkbox"/> |
| E | movable | <input checked="" type="checkbox"/> |
| F | glazed | <input checked="" type="checkbox"/> |



(d) The definition of prefabrication is work which is produced:

(1)

| | | |
|---|-------------|-------------------------------------|
| A | by hand | <input checked="" type="checkbox"/> |
| B | off-site | <input checked="" type="checkbox"/> |
| C | on-site | <input checked="" type="checkbox"/> |
| D | outside | <input checked="" type="checkbox"/> |
| E | by machine | <input checked="" type="checkbox"/> |
| F | by computer | <input checked="" type="checkbox"/> |

(Total for Question 9 = 4 marks)



P 4 0 4 5 9 A 0 2 1 2 8

10 The following are taken from a set of drawings for a project you are working on. To test your knowledge, the site manager has asked you to identify what they are called.

Put a cross in the box to identify the correct answer.

(a) The type of drawing below is a(n):

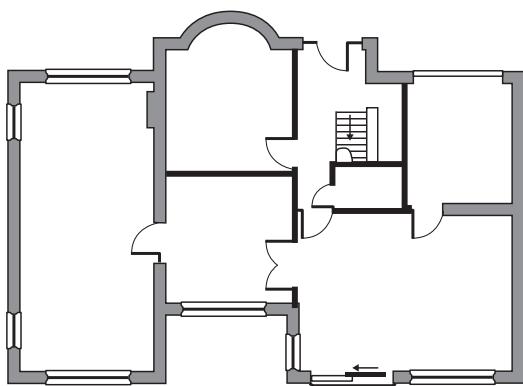


(1)

| | | |
|---|---------------|-------------------------------------|
| A | plan | <input checked="" type="checkbox"/> |
| B | portrait | <input checked="" type="checkbox"/> |
| C | picture | <input checked="" type="checkbox"/> |
| D | elevation | <input checked="" type="checkbox"/> |
| E | outline | <input checked="" type="checkbox"/> |
| F | cross section | <input checked="" type="checkbox"/> |



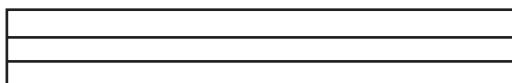
(b) The type of drawing below is known as a(n):



(1)

| | | |
|---|--------------|-------------------------------------|
| A | ground floor | <input checked="" type="checkbox"/> |
| B | elevation | <input checked="" type="checkbox"/> |
| C | section | <input checked="" type="checkbox"/> |
| D | outline | <input checked="" type="checkbox"/> |
| E | detail | <input checked="" type="checkbox"/> |
| F | plan | <input checked="" type="checkbox"/> |

(c) The fill pattern below shows:

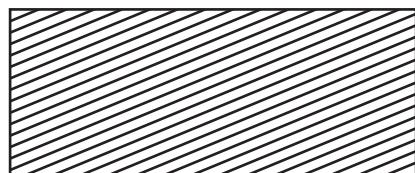


(1)

| | | |
|---|--------------|-------------------------------------|
| A | plywood | <input checked="" type="checkbox"/> |
| B | blockboard | <input checked="" type="checkbox"/> |
| C | fibreboard | <input checked="" type="checkbox"/> |
| D | hardboard | <input checked="" type="checkbox"/> |
| E | chipboard | <input checked="" type="checkbox"/> |
| F | stramitboard | <input checked="" type="checkbox"/> |



(d) The fill pattern below shows:



(1)

| | | |
|---|----------|-------------------------------------|
| A | glass | <input type="checkbox"/> |
| B | plaster | <input checked="" type="checkbox"/> |
| C | mdf | <input checked="" type="checkbox"/> |
| D | timber | <input checked="" type="checkbox"/> |
| E | metal | <input checked="" type="checkbox"/> |
| F | concrete | <input checked="" type="checkbox"/> |

(Total for Question 10 = 4 marks)



11 You have been asked to compare two different forms of contract documentation for use in assisting the project manager.

Put a cross in the box to indicate whether the associated statement would be found in document A only, document B only, both or neither.

Document A
Specification

Document B
Bill of Quantities

| | Specification | Bill of Quantities | Both | Neither |
|---------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Measured work | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Preliminaries | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Type of materials | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Nominated designers | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

(Total for Question 11 = 4 marks)



12 As the assistant planning technician you have been asked to examine the use of construction site planning documentation.

Describe **two** activities that would be included within the joinery first fix.

1

.....

.....

.....

.....

.....

2

.....

.....

.....

.....

(Total for Question 12 = 4 marks)



- 13** You are now working in the design office and have been asked to examine and evaluate external cladding options for a timber framed development.



Type 1 is vertical tile hanging



Type 2 is a traditional brick wall

Describe and evaluate **one** advantage and **one** disadvantage that Type 1 external cladding has over Type 2 traditional brickwork.

(Total for Question 13 = 4 marks)

TOTAL FOR PAPER = 60 MARKS



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