TIME: 3 HOURS MARKS: 100

INSTRUCTIONS AND INFORMATION

- Answer ALL the questions. 1.
- Read ALL the questions carefully. 2.
- Number the answers correctly according to the numbering system used in this 3. question paper.
- A balanced layout must be maintained. Candidates are encouraged to plan well 4. in order to earn marks.
- Answer only QUESTION 1 on the attached ANSWER SHEET. ALL the other 5. questions must be answered on A4 DRAWING PAPER. DO NOT use A3 drawing paper.
- The question number must appear at the TOP LEFT-HAND corner of EACH 6. page.
- Each drawing question must be plotted on a separate sheet of DRAWING 7. PAPER.
- Draw a border line around each DRAWING SHEET. 8.
- ALL candidate information must be plotted in the title block. 9.
- Plot the answers on ONE side of the DRAWING PAPER only.
- 11. Candidates will be responsible, under suitable supervision, for the plotting of their OWN drawn answers.
- Use your OWN discretion where dimensions are not given.
- 13. ALL the drawings must be drawn to the required scale.
- 14. Write neatly and legibly.

QUESTION 1: COMPUTER ORIENTATION

Write the answers to the following questions on the attached ANSWER SHEET. Write your EXAMINATION NUMBER in the space provided at the top of the sheet.

1.1	Write the words that are represented by the following acronyms:	

1.1.1	WAP	(1)
1.1.2	PDA	 (1)
1.1.3		(1)
1.1.4	MMS	(1)
1.1.5	ADSL	(1)

- Name the device that is capable of sending information along various paths (1)1.2 through a network.
- In computer terms, we often hear about 'hard copies' and 'soft copies'. (4)1.3 Briefly explain the difference between these TWO terms.
- Match the following terms with the descriptions given in the list below. Write 1.4 only the term next to the question numbers (1.4.1 - 1.4.5), on the ANSWER SHEET.

Virtual memory; bus; burn; system file; MP3

- A term used to write data files to a special piece of hardware (1)1.4.1
- This term refers to an audio file which has been compressed. It reduces the (1)1.4.2 physical size of the audio file with little loss of sound quality
- A collection of copper wires through which data is transmitted from one part (1)1.4.3 of a computer to another
- (1)It uses part of the hard drive as though it were 'RAM' 1.4.4
- A file in the system folder that allows your PC to start and run (1)1.4.5

[15]

QUESTION 2: BUILDING DRAUGHTING

FIGURE 1 below shows the floor plan layout of a small house to be built at a retirement village. The owners of the house thought the house being too small, requested that the house be extended by 2 metres to the west.

Wall thicknesses

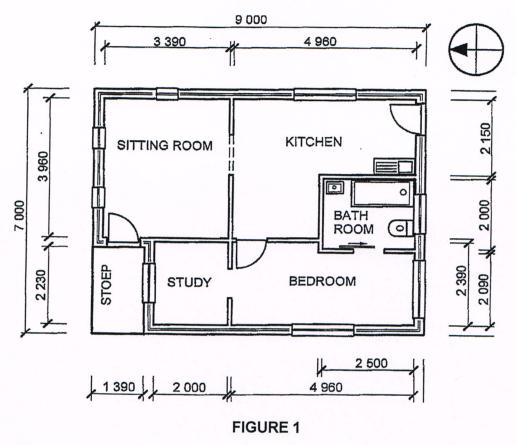
Cavity 270 mm thick External walls: Single leaf 11 0 mm thick Internal walls:

Refer to the attached window schedule and insert appropriate windows as indicated on the

plan layout. Also supply suitable floor coverings to ALL the rooms.

Draw to scale 1:100 and A4-drawing paper the given view to include the extension.

The drawing must be fully dimensioned and labelled with ALL the sanitary fitments in the correct positions.

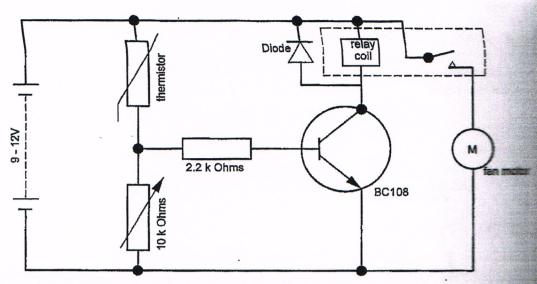


[30]

QUESTION 3: ELECTRICAL DRAUGHTING

FIGURE 2 below, shows an electrical circuit diagram for a temperature-activated fan.

Use an A4-DRAWING SHEET and draw, in good proportion, a neat layout of the current circuit diagram. Ensure that ALL the symbols are drawn correctly and placed in the correct positions. Provide the completed drawing with ALL the labels.



Circuit for a temperature-activated fan

FIGURE 2

QUESTION 4: STRUCTURAL STEEL DETAILING

Structural steel buildings require that a draughts person detail the components of a building to precise dimensions. This will ensure that the various parts of the structural steel building to precise dimensions. This will ensure that the various parts of the structural steel buildings require that a draughts person detail the components of a building to precise dimensions.

FIGURE 3, DIAGRAM SHEET 1 (attached) shows the structural details of a 254 s 256 62,5 kg/m universal column to be used as a structural support member for a small based

Draw to scale 1:10 and A4-drawing paper, portrait orientated, the given views as said

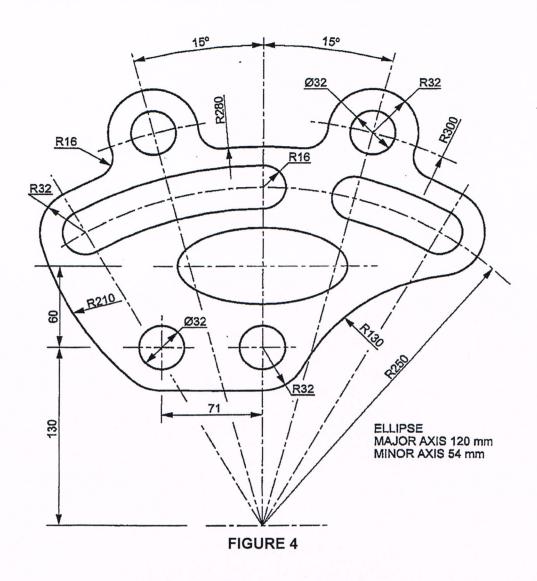
Good proportion must be maintained by using the correct scale. Insert ALL the disease labels and headings.

QUESTION 5: GENERAL AND MECHANICAL DRAUGHTING

FIGURE 4 below shows a shaped plate cover developed for a machine. Use scale \$44-drawing paper, portrait orientated, and draw the shaped plate.

ALL dimensions are given in millimetres.

Insert ALL the dimensions and centre lines. A balanced layout must be manually the correct scale.



[20]

TOTAL: [100]

DIAGRAM SHEET 1

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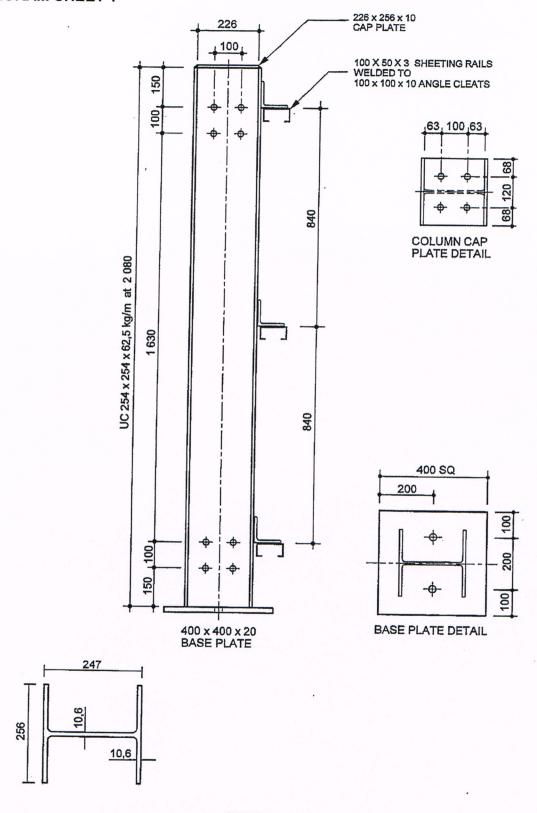


FIGURE 3

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REFERENCE SHEET 1

WINDOW SCHEDULE

