higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE: MULTI-DISCIPLINARY DRAWING OFFICE PRACTICE

COMPUTER-AIDED DRAUGHTING

21 April 2021

This marking guideline consists of 7 pages.

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QUESTION 1: COMPUTER ORIENTATION

1.1 1.1.1 True
1.1.2 False
1.1.3 False
1.1.4 False

(4 × 1) (4)

1.2 1.2.1 Fibre optics are glass fibres that carry information as light signals. (1)

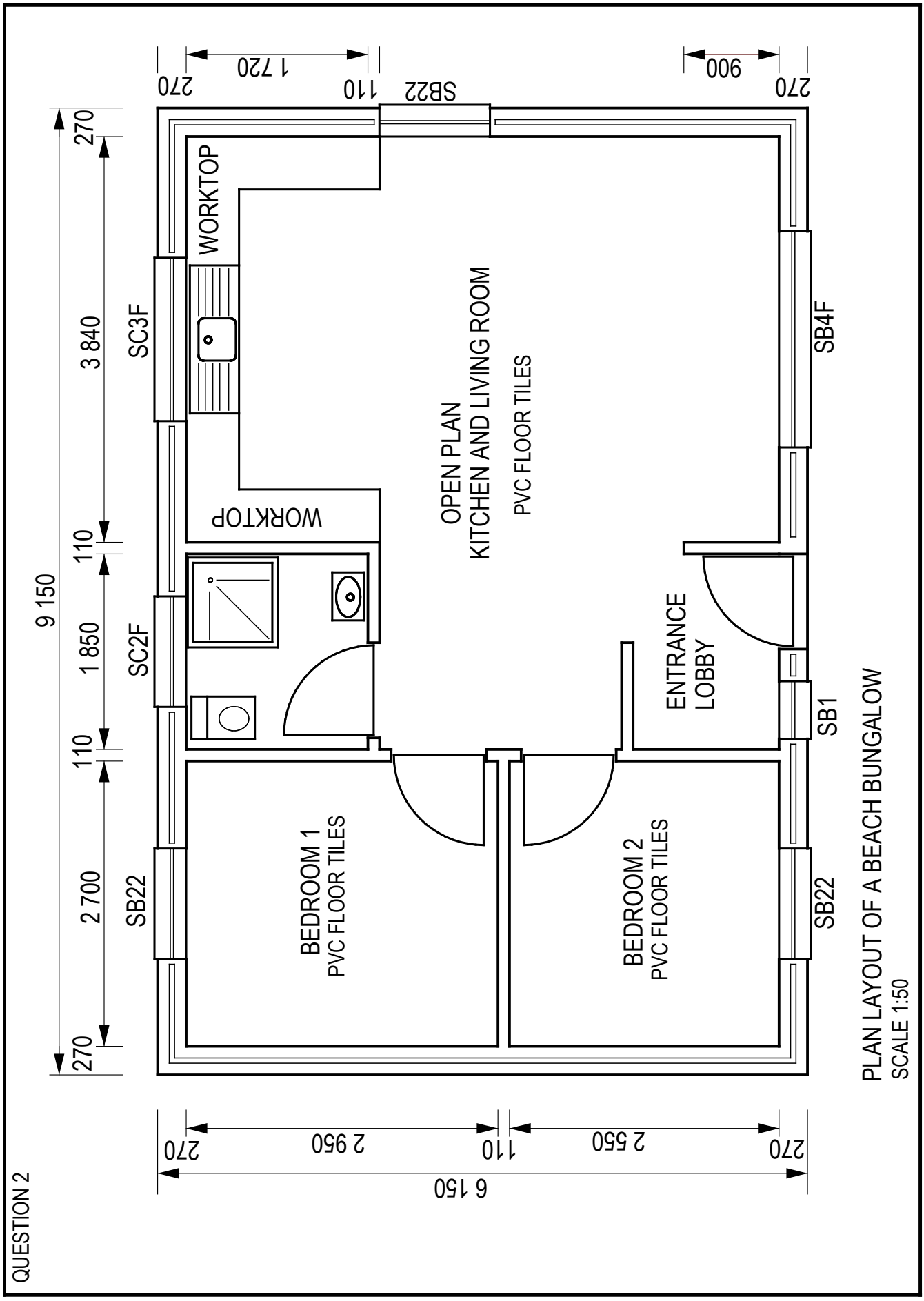
1.2.2 A work station is an individual computer attached to the network. (1)

1.2.3 A modem is a data communication connection device used for logging on to the internet. (1)

1.2.4 E-mailing is a method of sending messages or information from a computer to other electronic devices via a network, or vice-versa. (1)

1.2.5 A network is a computer system connected to a central point where data is drawn from and processed. (2)

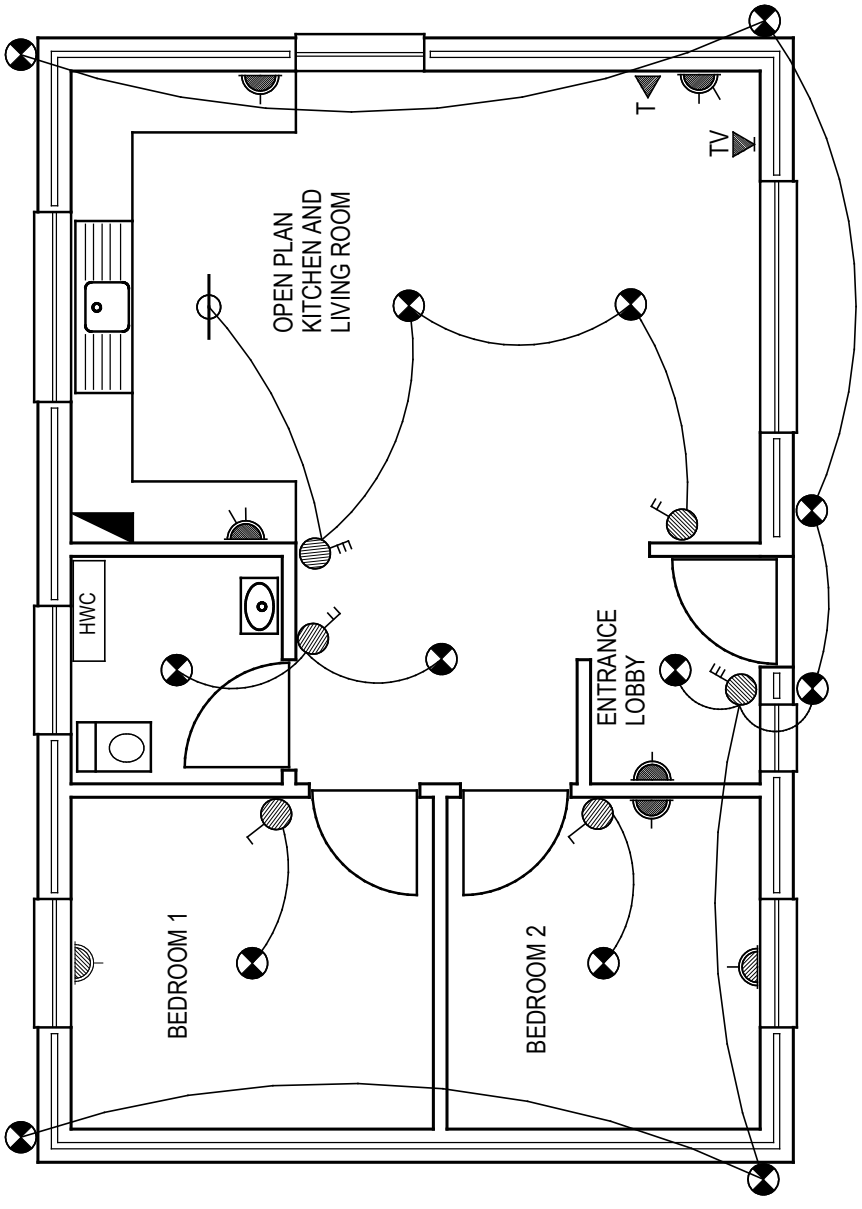
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QUESTION 3

QUESTION 3.1

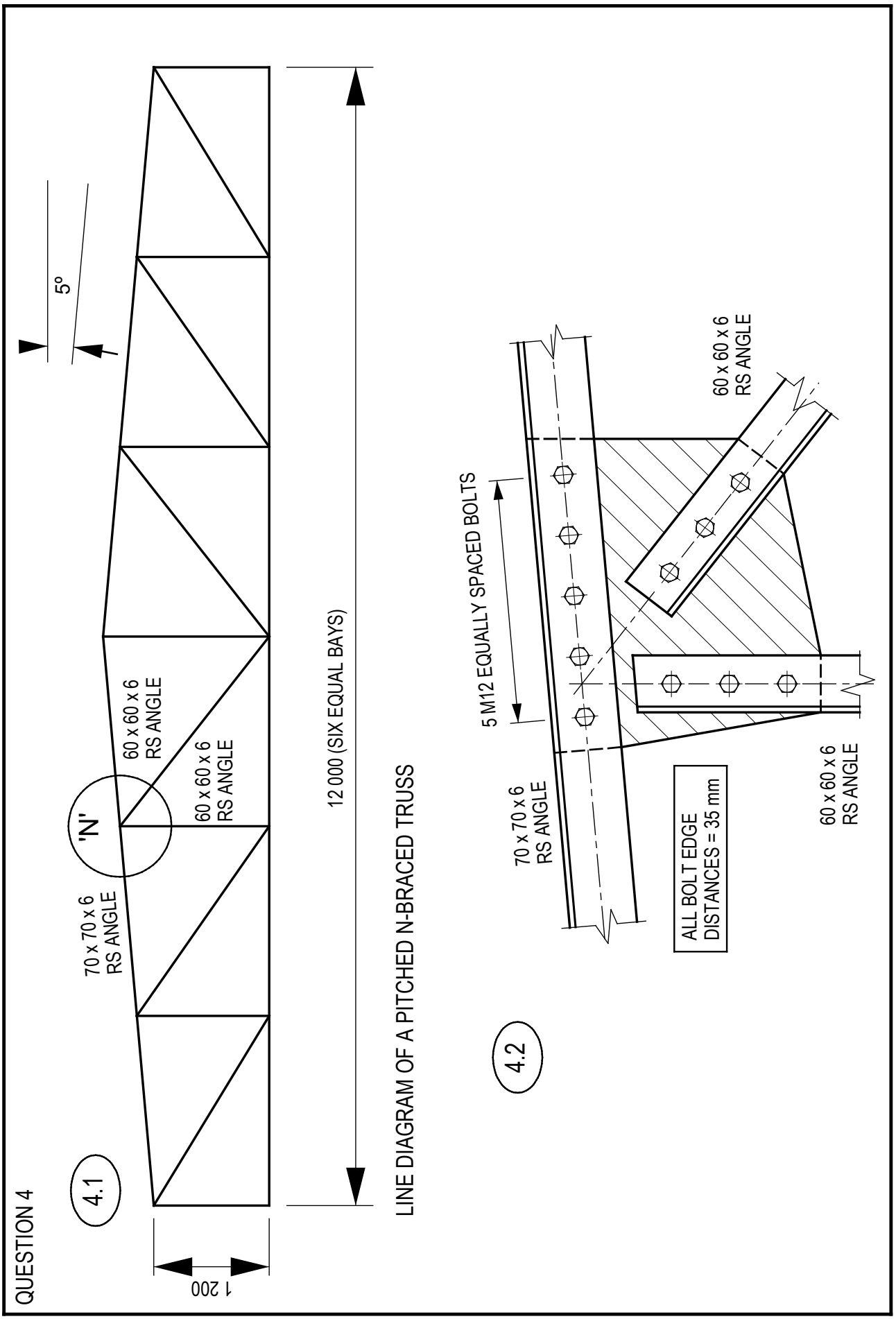


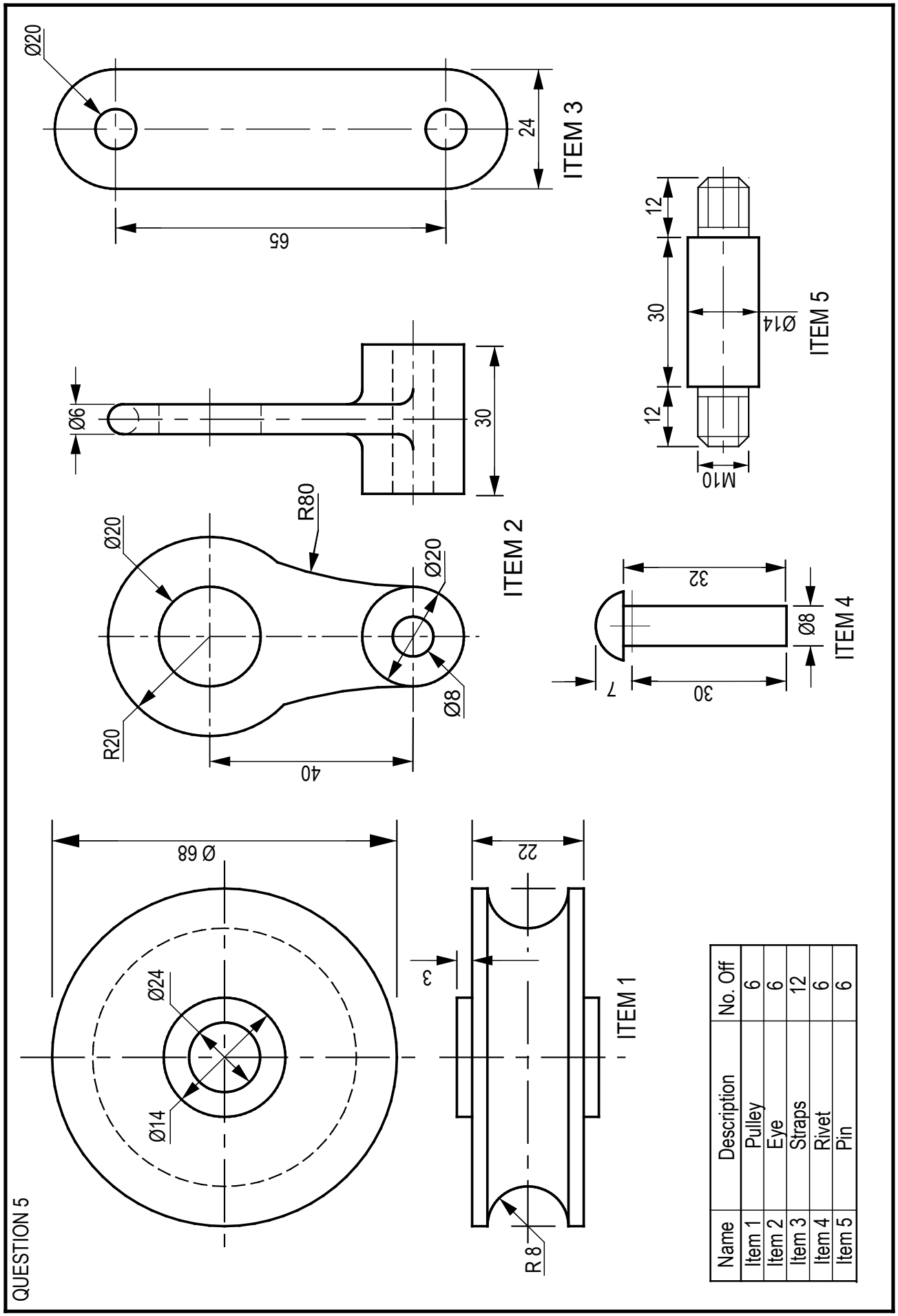
ELECTRICAL LAYOUT FOR BEACH BUNGALOW

QUESTION 3.2

ELECTRICAL LEGEND	
15 AMP POWER POINT	
DOUBLE 15 AMP POWER POINT	
LIGHT FITTING	
SINGLE FLUORESCENT LIGHT FITTING	
TV CONNECTION	TV
LIGHT SWITCH	
2 WAY LIGHT SWITCH	
3 WAY LIGHT SWITCH	
HOTWATER CYLINDER	HWC
DISTRIBUTION BOARD	

QUESTION 4


4.1
1 200
12 000 (SIX EQUAL BAYS)
5°
'N'
60 x 60 x 6 RS ANGLE
60 x 60 x 6 RS ANGLE
70 x 70 x 6 RS ANGLE
LINE DIAGRAM OF A PITCHED N-BRACED TRUSS
4.2
5 M12 EQUALLY SPACED BOLTS
60 x 60 x 6 RS ANGLE
70 x 70 x 6 RS ANGLE
60 x 60 x 6 RS ANGLE
ALL BOLT EDGE DISTANCES = 35 mm



Name	Description	No. Off
Item 1	Pulley	6
Item 2	Eye	6
Item 3	Straps	12
Item 4	Rivet	6
Item 5	Pin	6

QUESTION 1 (Computer Orientation)
1 mark for each correct answer Total = 10 marks

QUESTION 2 (Building)		
MARK ALLOCATION		
CORRECTNESS:		12
Ext. Dimensions	2	
Cavity wall	2	
Int. Walls	2	
Windows	2	
Doors	2	
Bath room	2	
Accuracy		3
Dimensions		3
Labels		2
Total		20

QUESTION 3.1 (Electrical)	
MARK ALLOCATION	
CORRECTNESS:	
Plan view copied.	1
All switches and lights	4
All power points	4
Telephone and TV	2
DB & HWC	2
Wiring arcs lines	2
Total	15

QUESTION 3.1	
MARK ALLOCATION	
Legend drawn corr.	5
Legend incomplete	
(2 marks)	
Total	5

Total = 20 marks

QUESTION 5 (Mechanical)		
MARK ALLOCATION		
Correctness:		19
Items Drawn corr	16	
Material list	3	
Accuracy / Scale		3
Centre lines		3
Labels		2
Dimensions		3
Total		30

Items 1 & 2 = 5 marks each
Items 3,4 & 5 = 3 marks each
10 + 6 = 16

QUESTION 4 (Structural)	
MARK ALLOCATION (Q4.1)	
Correctness:	
Corr pitch	1
Shape corr	2
Total	3
Accuracy	2
Centre line	2
Hatching	1
Lables	2
Total	7

MARK ALLOCATION (Q4.2)	
Correctness:	
Set-out angles corr	2
Angles in corr position	2
All bolts corr	4
Gusset plate	2
Total	10

SUMMARY
3 + 10 + 7 | Total = 20 Marks

TOTAL = 100 marks

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