higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE

SPATIAL PLANNING THEORY AND PRACTICAL N4

(10050304)

14 November 2022 (X-paper)
09:00–12:00

Candidates may use drawing equipment and calculators when answering this question paper. A4 tracing paper and A4 grid paper will be supplied to each candidate.

This question paper consists of 8 pages.

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DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
SPATIAL PLANNING THEORY AND PRACTICAL N4
TIME: 3 HOURS
MARKS: 200

INSTRUCTIONS AND INFORMATION

1. Answer all the questions.
2. Read all the questions carefully.
3. Number the answers according to the numbering system used in this question paper.
4. Start each section on a new page.
5. Use only blue or black pen.
6. Use your own drawing equipment, clutch pencil, technical pens and pencil crayons for practical drawing questions.
7. Use calculators where necessary.
8. Write neatly and legibly.

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SECTION A

QUESTION 1

Indicate whether the following statements are TRUE or FALSE by writing only 'True' or 'False' next to the question number (1.1–1.10) in the ANSWER BOOK. Give a reason for the answer.

1.1 A client's brief is based on a family's economic situation.

1.2 The interior decorator is only responsible for the aesthetic enhancement of an interior space.

1.3 The physiological needs of a person are the ergonomic relationship of a person in their environment.

1.4 Anthropometrics is the study of the measurements of the body.

1.5 3,45 m is the same distance as 3 450 cm.

1.6 Circulation and flow of traffic can be planned from any room to the back door.

1.7 Glare can be prevented by avoiding sharp contrasts between light and dark.

1.8 Acoustics and HVAC systems are the functional aspects of the interior environment.

1.9 A futon is a Japanese type table used in dining areas.

1.10 Rhythm refers to the way the eye is led from one place to another in a room.

(10 × 2) **[20]**

QUESTION 2

Choose an item from COLUMN B that matches a description in COLUMN A. Write only the letter (A–J) next to the question number (2.1–2.10) in the ANSWER BOOK.

COLUMN A		COLUMN B	
2.1	The equilibrium between one group of furniture and another	A	unity
2.2	Identical pieces on either side of a focal point	B	plastic
2.3	Items that look as if they belong together	C	1 200 mm
2.4	Calling attention to a certain area	D	900 mm
2.5	Stainless steel, chrome, aluminium, cast iron and wrought iron	E	920 mm
2.6	Vinyl, melamine, acrylic and polycarbonate	F	600 mm
2.7	The elbow space between places around the dining table	G	emphasis
2.8	A round table that seats six people	H	formal balance
2.9	The width of a single bed	I	metal
2.10	The width of a passage	J	symmetrical

(10 × 1) **[10]**

QUESTION 3

Study the picture and then answer the questions:



[Source: *http://serbakuota.com/room/]*

3.1 Is this a horizontal plan or a multi-storey plan? (1)

3.2 Explain your choice in QUESTION 3.1. (2)

3.3 What are the advantages and disadvantages of a horizontal plan? (8)

3.4 Divide the rooms into public space and private space.

Make a list with a heading for public spaces and a separate heading for private spaces. (7)

3.5 Is this an open plan or closed plan? Substantiate your answer. (2)

[20]

QUESTION 4

4.1 Explain your role as an interior decorator to your new client. (10)

4.2 Explain how you will fulfil the security needs for a client's home. (5)
[15]

QUESTION 5

Discuss the psychological aspects of light. **[10]**

QUESTION 6

6.1 Draw up a checklist for the furniture requirements for a child's room between the ages of five years and 10 years. Give reasons for your selections. (10)

6.2 Explain the following bathroom fixtures:

6.2.1 *Siphonic system toilet* (3)

6.2.2 *Mixer tap* (2)

6.3 What criteria would you consider when choosing furniture for an interior? (10)
[25]

TOTAL SECTION A: 100

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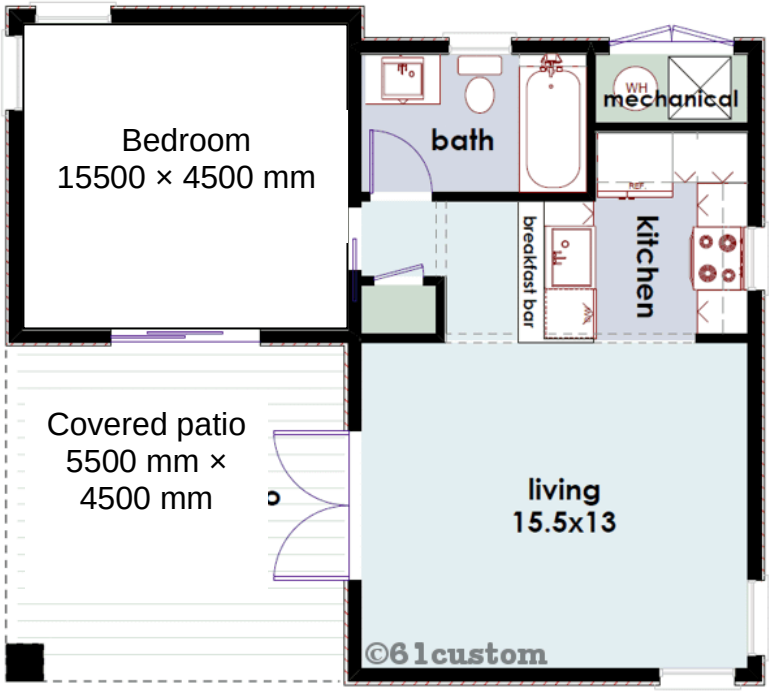
SECTION B

QUESTION 7

Clients' brief for a main bedroom

Your clients, Mr and Mrs Grey, have requested your interior decorating services. You are required to design a main bedroom (bedroom 1) and a patio. The windows are both 1 000 mm wide. The sliding door is 2 100 mm. Your inspiration should come from the exterior elevation.





[Source: *https://61custom.com/houseplans/studio600/]*

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7.1 Refer to the drawing above. This is the existing floor plan to be used for the new proposal. Draw a floor plan of only bedroom 1 and the covered patio of your proposal on A4 tracing paper. The scale to be used is 1 : 50. Assessment will be on the following criteria and relative information:

7.1.1	Drawing technique, including construction lines, crossing lines, 45° rule, inked lines, correct use of line weights and neatness	(12)
7.1.2	Dimension technique, including ordering and layering of dimension lines, totalling of dimensions, correct style, correct measurements and correct use of scale	(10)
7.1.3	Ergonomics, including traffic flow, correct furniture sizes and correct placement of furniture	(12)
7.1.4	Symbols, including electrical, furniture, built-in furniture, walls, windows, doors, tagging of furniture and north point	(16)
7.1.5	Instructions: Construction notes with leaders, tabulated electrical legend, tabulated furniture legend, tabulated sanitary legend and title of drawing	(15)
7.1.6	Orientation: Placement of North relative to sunlight and the correct orientation of the floor plan to the drawing sheet	(2)
7.1.7	Colour: neatness and colour scheme	(2)
7.1.8	Zoning: planning, bubble diagrams and activity areas	(6)

7.2 Explain your design proposal, considering the main bedroom and patio, by referring to the following:

7.2.1	Decoration style	(1)
7.2.2	Concept statement	(2)
7.2.3	Colour scheme	(2)
7.2.4	Mood and interior atmosphere	(2)
7.2.5	Floor treatment	(2)
7.2.6	Wall treatment	(2)
7.2.7	Window treatment	(2)
7.2.8	Furniture choices, including sizes	(6)
7.2.9	Accessories	(6)
		[100]

TOTAL SECTION B: 100
GRAND TOTAL: 200

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