higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE

SURFACE ELEMENTS THEORY AND PRACTICAL N4

(10050314)

31 May 2021 (X-paper)
09:00–12:00

This question paper consists of 6 pages.

151Q1J2131

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DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA

NATIONAL CERTIFICATE
SURFACE ELEMENTS 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 a black or blue pen.
6. Write neatly and legibly.

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SECTION A

QUESTION 1

1.1 Choose a description from COLUMN B that matches an item in COLUMN A. Write only the letter (A–J) next to the question number (1.1.1–1.1.10) in the ANSWER BOOK.

COLUMN A		COLUMN B	
1.1.1	Frieze carpet	A	thermoplastic material
1.1.2	Sisal	B	tongue-and-groove connections
1.1.3	Carpet carving	C	hard, durable surface
1.1.4	Bamboo flooring	D	tightly twisted yarns
1.1.5	Tweed	E	rough, woolen fabric
1.1.6	Parquet flooring	F	the most popular carpet fibre
1.1.7	Vinyl	G	eco-friendly floor
1.1.8	Ceramic tile	H	made from the agave plant
1.1.9	Polyester	I	flame-retardment
1.1.10	Nylon	J	3D effect

(10 × 2) (20)

1.2 Indicate whether the following statements are TRUE or FALSE by writing only 'True' or 'False' next to the question number (1.2.1–1.2.10) in the ANSWER BOOK.

1.2.1 Carpets generating static electricity is a problem with electronic equipment.

1.2.2 Exterior walls are constructed with added insulation.

1.2.3 Spandex is a strong nonflexible material.

1.2.4 The floor covering will not affect the visual size of the room.

1.2.5 Soft wall coverings will help to absorb noise.

1.2.6 Stainless steel is a clinical and inexpensive covering for walls.

1.2.7 Overprinting of several layers of ink can be done in silk screening.

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1.2.8 Embossed paper has a raised surface design.

1.2.9 Ceilings can be used to make strong architectural statements.

1.2.10 A large room should have smaller rugs to cover less attractive areas.

(10 × 2) (20)

1.3 Choose the correct option from those given in brackets. Write only the answer next to the question number (1.3.1–1.3.10) in the ANSWER BOOK

1.3.1 In a small room (large/small) patterns should be used.

1.3.2 (Accent rugs/Scatter rugs) are smaller rugs that add spots of colour.

1.3.3 Palm leaf patterns are found on the (Seraband/Kermanshah) rugs.

1.3.4 The (chair rail/picture rail) is found just above the dado area.

1.3.5 The (mantel/hearth) is the area at the bottom of a fireplace.

1.3.6 Wood (can/cannot) be treated so that it can be fire-resistant.

1.3.7 Natural colour for tiles after it is bisk-fired is (green/red).

1.3.8 (Horse hair/Pig bristle) is used for carpets and is highly resistant to wear.

1.3.9 Pressed steel ceilings are traditionally (polished/painted).

1.3.10 Horizontal wood panelling will make a room seem (higher/wider).

(10 × 2) (20)

[60]

TOTAL SECTION A: 60

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SECTION B

QUESTION 2

2.1 Describe the difference between the following materials:

2.1.1 Natural materials

2.1.2 Converted materials

2.1.3 Artificial materials

(3 × 5) (15)

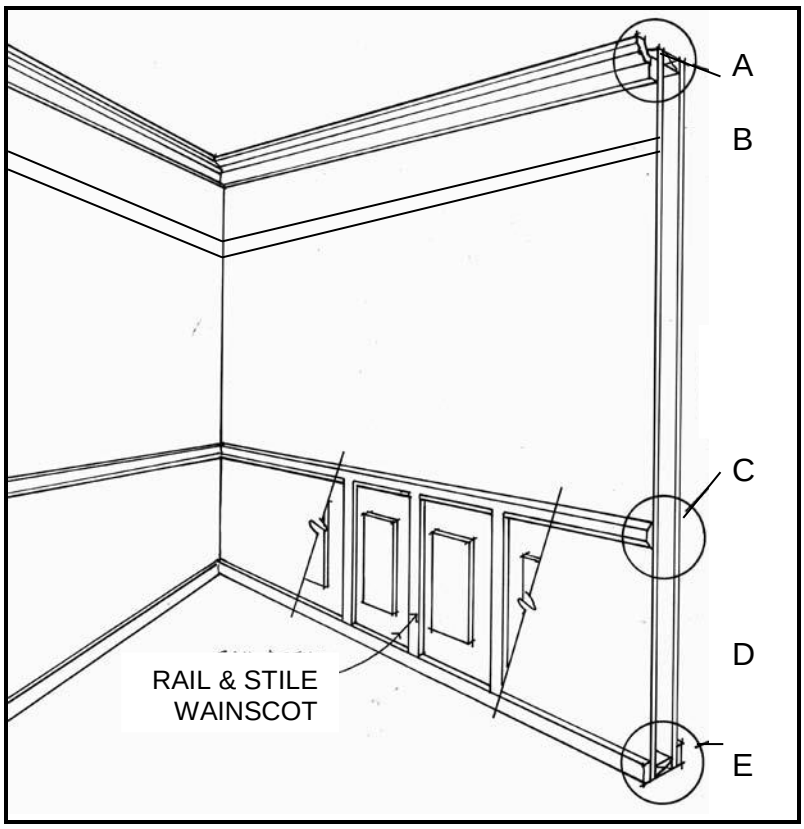
2.2 Explain the following types of wood and their applications:

2.2.1 Hardwoods

2.2.2 Softwoods

(2 × 5) (10)

2.3 Name the areas indicated in the drawing by writing only the answer next to the letter (A–E) in the ANSWER BOOK.



(5)

2.4 What are the advantages and disadvantages of using wallpaper? (10)

[40]

QUESTION 3

3.1 Discuss each of the following weaves:

3.1.1 Axminster

3.1.2 Wilton

3.1.3 Kilim

3.1.4 Knotted

3.1.5 Bokhara

3.1.6 Flokati

(6 × 5) (30)

3.2 Compare *marble* to *terrazzo* as a flooring tile. (10)
[40]

QUESTION 4

4.1 When designing a Southern African traditional kitchen, describe the finishes that can be used for the following:

4.1.1 Worktops (10)

4.1.2 Ceiling (5)

4.1.3 Walls (5)

4.1.4 Floors (5)

4.2 When designing a home theatre, describe what needs to be considered for the following:

4.2.1 Cabinetry (10)

4.2.2 Ceiling (10)

4.2.3 Walls (10)

4.2.4 Floors (5)
[60]

TOTAL SECTION B: 140
GRAND TOTAL: 200

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