



- Candidates are required to answer **ALL** the questions.
- Questions must be answered in **SEQUENCE**. Ensure that your answers are clearly **NUMBERED**.
- This is a **CLOSED BOOK** paper. No notes, supplementary documents or online referencing is permitted.
- All answers must be **in your OWN words** where appropriate.
- Candidates must take note of the mark allocation of each question in order to provide enough information in their answers.
- Where answers are duplicated between candidates, plagiarised, or copied, **ZERO** marks will be granted.
- Take note that duplicated, plagiarised and/or copied answers may be subject to further investigation, penalties and/or disciplinary action.

- Total marks for paper one – **150 marks**
- Pass mark – a minimum of **50%** in each of the two papers.
- Time allocation – **3 hours**

QUESTION 1 – Definitions

10 marks

1.1	With reference to the Architectural Profession Act 44 of 2000, provide the definition of the following terms:	
1.1.1	“this Act”	(1)
1.1.2	“actively practice”	(1)
1.1.3	“CBE”	(1)
1.1.4	“council”	(1)
1.1.5	“voluntary association”	(1)

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1.2	What are 2 (two) of the stated purposes of the Architectural Profession Act 44 of 2000? Provide full sentences	(2)
1.3	Name two powers of the Council as per the Architectural Profession Act 44 of 2000 regarding fees and charges.	(2)
1.4	As stated in the Architectural Profession Act No. 44 of 2000, when the Council reports to the CBE, within how many months from the close of the financial year must the council report regarding its activities be provided? Provide your answer in a full sentence	(1)

QUESTION 2 - Mixed Method Questions

20 mark

2.1	<p>State whether the following statement is True or False:</p> <p>Amongst other responsibilities of the Council, the council has administrative powers that determines the remuneration and allowances payable to the members or members of any committee of the Council after consultation with the CBE.</p>	(1)						
2.2	<p>In terms of the Act known as the Council for the Built Environment No. 43 of 2000, List FOUR (4) objects of the council</p> <p>Select any 4 of the below:</p>	(4)						
2.3	<p>Identify under which category each of the following activities would fall when claiming CPD credits:</p> <p>Only 1 (one) answer is acceptable for each question:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">i. Membership at one of the approved Voluntary Associations (VA's)</td> <td style="width: 50%;"></td> </tr> <tr> <td>ii. Attending a workshop on the JBCC presented by one of the VA's</td> <td></td> </tr> <tr> <td>iii. Practising architecture while employed at an architectural practice</td> <td></td> </tr> </table>	i. Membership at one of the approved Voluntary Associations (VA's)		ii. Attending a workshop on the JBCC presented by one of the VA's		iii. Practising architecture while employed at an architectural practice		(3)
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2.4	<p>Continuing Professional Development (CPD) is required to qualify for the renewal of registration with SACAP.</p> <p>In your own words, describe TWO (2) benefits of regularly attending and engaging in CPD courses and activities</p> <p>Any 2 of the below (2 marks)</p>	(2)														
2.5	<p>Select ONE of the following abbreviations that represent an organisation that is NOT a Voluntary Association (VA)</p> <p>Select ONE (1) from the following list</p> <table border="1" data-bbox="240 600 1366 770"> <tr><td>A</td><td>SAIA</td></tr> <tr><td>B</td><td>SAIAT</td></tr> <tr><td>C</td><td>FACE</td></tr> <tr><td>D</td><td>SAIBD</td></tr> <tr><td>E</td><td>SACAP</td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table>	A	SAIA	B	SAIAT	C	FACE	D	SAIBD	E	SACAP					(1)
A	SAIA															
B	SAIAT															
C	FACE															
D	SAIBD															
E	SACAP															
2.6	<p>In terms of Board Notice 27 OF 2021, Identification of Work for the Architectural Profession. , Categories of registration, Section 18 (1) of the Architectural Profession Act prescribes four categories of <i>Professionals</i>. List these Four Categories</p>	(4)														
2.7	<p>As per Board Notice 7 OF 2021, Code of Conduct for Registered Persons, Architectural Profession Act 44 of 2000. Name any FIVE of the eight rules of Professional Conduct (headings only).</p>	(5)														

SECTION A - CALCULATION

[10]

3.1	<p>Mr Dladla, has a 250 square meter plot at 321 Farm scene Drive, Ballito , ERF 21005 . They require you to provide a quote for the design of his new home. He plans to build a low complexity single story home with a budget of R1,500,000.00 for construction. (Excluding VAT and professional fees).</p>	
	<p>With reference to SACAP's Guideline for Professional Fees ((Board Notice 307 Of 2022), using the extract below (Table 1) , calculate the Following:</p> <p>3.1.1 The Professional fee, using the project Cost-base fee method for the standard (full) scope of architectural services. (Calculations based on the highlighted row).</p> <p>3.1.2 Professional Fee , including VAT at 15%</p> <p>3.1.3 The Standard Service which is generally divided into 6 work stages,</p> <ul style="list-style-type: none"> • Name each work stage and • Calculate the Professional Fee Portion per the stage (Including VAT amount). 	<p>(2)</p> <p>(1)</p> <p>(7)</p>

Hint : Use the following formula for calculating Professional fee

$$\text{Professional Fee} = \text{Primary Fee} + \text{Secondary Fee (Value of works - Column E) x \% (column D)}$$

TABLE BELOW: Low Complexity

LOW COMPLEXITY					
Cost Bracket	Value of works		Primary Fee	Plus, secondary fee	
	From	To		Add %	On balance over
	A	B	C	D	E
1.	1	200 000,00	11 341,85	17,53%	1
2.	200 001,00	650 000,00	46 393,33	16,85%	200 001,00
3.	650 001,00	2 000 000,00	122 193,97	12,43%	650 001,00
4.	2 000 001,00	4 000 000,00	289 927,74	10,83%	2 000 001,00
5.	4 000 001,00	6 500 000,00	506 559,80	10,55%	4 000 001,00
6.	6 500 001,00	13 000 000,00	770 251,28	9,16%	6 500 001,00
7.	13 000 001,00	40 000 000,00	1 365 321,64	8,86%	13 000 001,00
8.	40 000 001,00	130 000 000,00	3 755 421,23	8,85%	40 000 001,00
9.	130 000 001,00	260 000 000,00	11 717 437,86	8,28%	130 000 001,00
10.	260 000 001,00	520 000 000,00	22 475 739,42	8,08%	260 000 001,00
11.	520 000 001,00	1 040 000 000,00	43 501 431,14	7,88%	520 000 001,00
12.	1 040 000 001,00	0	84 483 711,59	7,28%	1 040 000 001,00

SECTION B – DOCUMENTATION

[10]

3.2	<p>Mr. Dladla is happy with your Fee Quotation and would like to appoint you for the full Architectural services. Describe/list 5 key elements found in the Client- Professional Project Agreement for low Complexity Architectural Projects that you would include in your agreement.</p>	(5)
3.3	<p>Having proceeded with your services up until work stage 4, you are now preparing to submit drawings and documentation to the local authorities for building plan approval before construction commences. Identify FIVE (5) documents that must be provided to the local authorities in order for your submission to be capable of being approved</p> <p>[5]</p>	(5)

QUESTION 4 - Case Study + Fee Calculation

17 marks

Mr Nyambose has approached you to provide architectural services for a project in South Beach that entails converting an existing apartment building into short-term stay AirBnb units.

After using AI Chatbot, EstimatorGPT, it has estimated that a reasonable budget for the project is approximately R 25,000,000.00 (excluding VAT and professional fees)

Due to the nature of the project, Mr Nyambose has asked you to provide a fee proposal for the standard (full) scope of professional services for the project and will then decide on how he would like to proceed.

The fees for your services will be project cost-based and will be in line with the SACAP Guideline for Professional Fees (Board Notice 172 of 2021).

4.1	<p>Calculate the proposed professional fees for this project, including and excluding VAT. An extract from the SACAP Guideline for the appropriate level of complexity is provided.</p> <p>Show for each stage the Professional Fee apportionment including VAT at every stage (10)</p>	(7)
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extract from Board Notice 172 of 2021: TABLE 3: HIGH COMPLEXITY

Cost Bracket	Value of works		Primary Fee	Plus, a secondary fee	
	From	To		Add %	On balance over
	A	B	C	D	E
1	1.00	200 000.00	13 970,41	21,59%	1.00
2	200 001.00	650 000.00	57 145,33	20,75%	200 001.00
3	650 001.00	2 000 000.00	150 513,36	15,30%	650 001.00
4	2 000 001.00	4 000 000.00	357 120,69	13,34%	2 000 001.00
5	4 000 001.00	6 500 000.00	623 958,89	12,99%	4 000 001.00
6	6 500 001.00	13 000 000.00	948 762,87	11,28%	6 500 001.00
7	13 000 001.00	40 000 000.00	1 681 745,30	10,90%	13 000 001.00
8	40 000 001.00	130 000 000.00	4 625 768,63	10,90%	40 000 001.00
9	130 000 001.00	260 000 000.00	14 043,09	10,19%	130 000 001.00
10	260 000 001.00	520 000 000.00	27 662,76	9,96%	260 000 001.00
11	520 000 001.00	1 040 000 000.00	53 218,25	9,71%	520 000 001.00
12	1 040 000 001.00		104 453,52	8,98%	1 040 000 001.00

5.1	<p>Mr Joseph Ndlovu has appointed your firm to design an exclusive 5 star resort in Cape Town.</p> <p>You have completed stages 1 to 4a, (<i>with the written signature of the client for the first two stages only</i>) and have set a meeting with Mr Ndlovu to get his signature for the relevant council submission drawings and documents.</p> <p>During the meeting, the client claims that he did not sign off on the design development drawings, and that he still wanted to make changes to the design.</p>	[15]
5.1.1	<p>Mr Ndlovu threatens to lay a complaint against you for continuing with council submission drawings without his approval. Based on the SACAP Code of Professional Conduct – Board Notice 7 of 2021, do you believe he has a valid claim?</p>	(2)
5.1.2	<p>In your own words describe Two systems you would put in place to ensure that this kind of situation does not occur in the future?</p>	(4)
5.1.3	<p>You submit all the relevant drawings and documentation to the local authority. The local authority has given feedback after eight weeks requesting further Environmental studies before they can sign off on the proposed design.</p> <p>Mr Ndlovu is furious that more documents /reports are required and once again threatens to lay a complaint against you at SACAP for not performing your work within a reasonable time. According to the SACAP Code of Professional Conduct – Board Notice 7 of 2021, what is your responsibility as the appointed professional once it becomes clear that there are issues that may affect the project?</p>	(4)
5.1.4	<p>Who would be responsible for the appointment of an environmental specialist in this instance?</p>	(2)
5.1.5	<p>Can an Architectural Professional guarantee that a client's building plans will be approved by the local authority?</p>	(3)
5.2	<p>You are a Professional Senior Architectural Technologist and were appointed by Mr Kalebo Mokonoto to design a house in Rustenburg.</p> <p>You entered a client – professional project agreement for architectural services with Mr Mokonoto.</p>	[15]
5.2.1	<p>Name six responsibilities of Mr Mokonoto in terms of the client – professional project agreement.</p>	(5)

5.2.2	You were partially appointed to provide the working drawings. Are you entitled to liaise with the contractor and local council in terms of the approval of the final plans, budget, material costs and project scope?	(3)
5.2.3	Mr Mokonoto holds you responsible for the financial viability of the project, cost of the steel reinforcing used by the contractor and for the professional fees of the electrician and gas installers. How do you respond in terms of the client – professional project agreement.	(3)
5.2.4	Mr Mokonoto indicated that he is securing a second bond and will be able to pay you at the end of the following month. You submit the plans and pay for the approval of the plans at the local council. Mr Mokonoto pays you for your professional fees, but refuses to reimburse you for the submission fees paid by yourself to the local council. Indicate what the professional fees consist of and if it includes submission fees for the approval process. Indicate if you have a right to claim the submission fees from Mr Mokonoto or is it part of your professional fees?	(4)

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QUESTION 6 – The Business of Architecture
16marks

6	Ms Maggie Ferman, one of your friends, is registered as a candidate Architectural Technologist. Maggie recently opened her own architectural practice called “MF Designs.”		
6.1.	In your own words, explain to Maggie why she is not permitted <u>to</u> open her own practice if she is still a candidate		(2)
6.2	Maggie has written her PPE and has successfully registered with SACAP as a Professional Architectural Technologist. She has asked for your advice on registering her practice with CIPRO which will specialise in residential architecture, Name TWO types of business entities that would be appropriate to register ?		(4)
6.3	You noticed on social media that Maggie posted a photo of the first set of drawings she prepared for submission to the local authority. The title block is clearly visible in the photo, showing the address, name, and identity number of the client. In your own words, explain why this is incorrect in terms of the Protection of Personal Information (POPI) Act (4 of 2013). <i>(4 marks answer)</i>		(4)
6.4	In your own words, describe THREE (3) steps to safeguard the personal information of clients		(3)
6.5	Maggie’s architectural practice has an annual revenue less than ONE million rand.		
	6.5.1	Explain to Maggie the TWO (2) types of VAT registration and a reason why she should register her company for Value Added Tax (VAT) at SARS?	(2)
	6.5.2	Is she required to add Value Added Tax (VAT) to invoices to her clients? <i>(answer "YES" or "NO")</i>	(1)

QUESTION 7 – Professional title and the difference between categories 25 marks

7	<p>Mrs. Nkosi is keen on having her future home designed by an architect. He later learns that someone with the title of Senior Architectural Technologist will also be able to design his home.</p> <p>Until now, Mrs. Nkosi was under the impression that the field of architecture was more uniform, without a clear understanding of the different categories of registration. She's intrigued about how one earns this professional designation and what it signifies concerning the breadth of work such a technologist can undertake.</p> <p>Learning about your expertise and reputation as a well-informed architectural professional, Mrs. Nkosi comes to you with her queries, hoping to gain clarity on the distinctions within the profession and the specific role and capabilities of a Senior Architectural Technologist in the context of designing his dream home.</p>	
7.1.	<p>Through a discussion, help her understand:</p> <ul style="list-style-type: none"> • what the various categories of registration are, • what the difference between an architect and senior technologist is, • as well as how one can obtain the latter title. 	(15)
7.2	<p>In light of the historical context where previous legislation on the reservation of work did not differentiate between various levels of architectural registration and only recognized professional architects, how does SACAP's current Identification of Work (IDoW) policy improve public protection?</p> <p>Name the previous legislation, the act which replaced it and some insight on its offering toward public protection.</p>	(5)

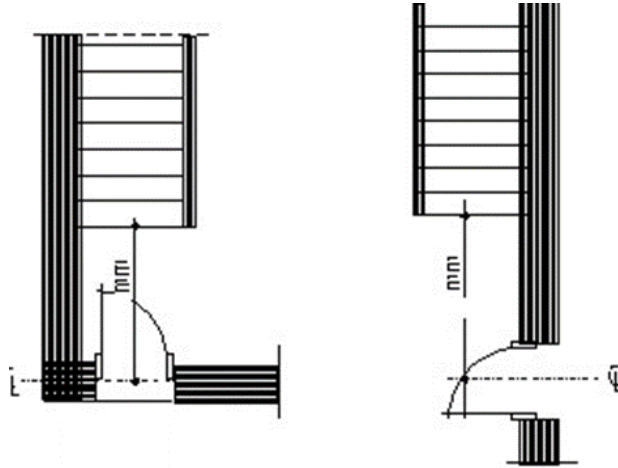
7.3	Furthermore, considering that the IDoW policy and its schedules are subject to ongoing monitoring and review to maintain their relevance to both the architectural profession and the broader built environment, what mechanisms are in place to ensure these standards continue to reflect the evolving competencies and qualifications within the field?	(5)

Choose the correct answer pertaining to each of the diagrams or sketches below:

8.1

Figure 1

(2)



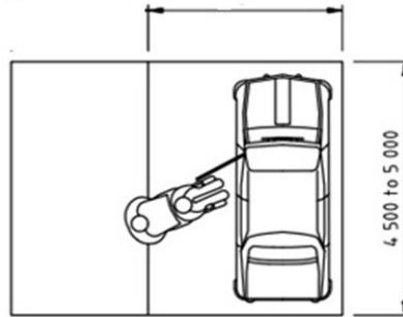
The distance between any change in floor level and the centre line of a doorway in an emergency route or between two changes of floor level in such route shall be not less than metres (see figure 1 below).

Select ONE (1) from the following list(2 marks)

- | | |
|---|---------|
| A | 900 mm |
| B | 850 mm |
| C | 1500 mm |
| D | 3000 mm |
| E | 1000 mm |

8.2 The minimum full width of a wheelchair parking bay adjacent to a standard parking bay is? (2)

Figure 2



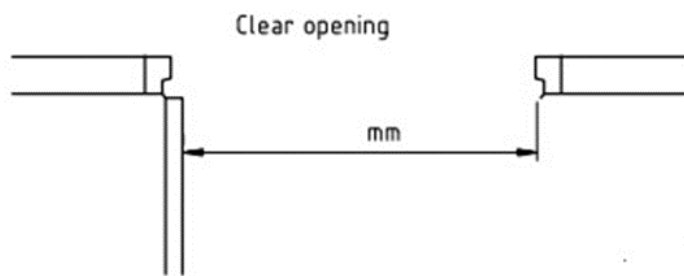
a) Full width for wheelchair needed adjacent to standard bay

Select ONE (1) from the following list(2 marks)

- | | |
|---|---------|
| A | 4500 mm |
| B | 3500 mm |
| C | 2500 mm |
| D | 1500 mm |
| E | 1000 mm |

8.3 Doorways shall allow free access for wheelchair users. The clear opening shall be at least mm when approached along a line that is perpendicular to the opening, as shown in figure 3 (2)

Figure 3



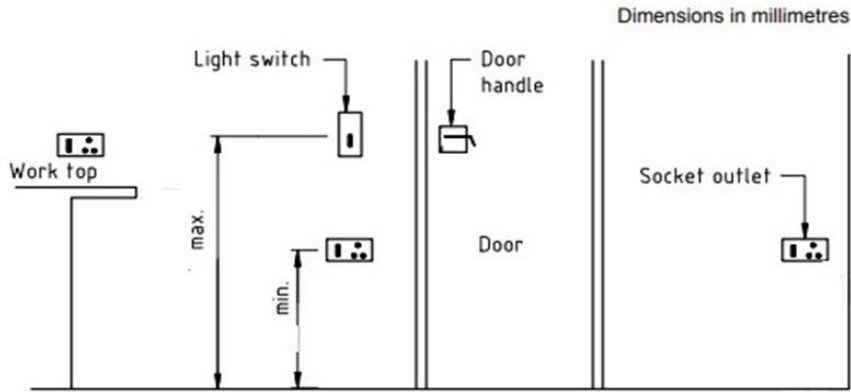
Select ONE (1) from the following list(2 marks)

- | | |
|---|---------|
| A | 750 mm |
| B | 600 mm |
| C | 700 mm |
| D | 2500 mm |
| E | 1000 mm |

8.4

The height for a light switch and door handle in Figure 4. below is ...mm, measured from ground level. (2)

Figure 4.



Heights for switches, general-purpose socket outlets and door handles

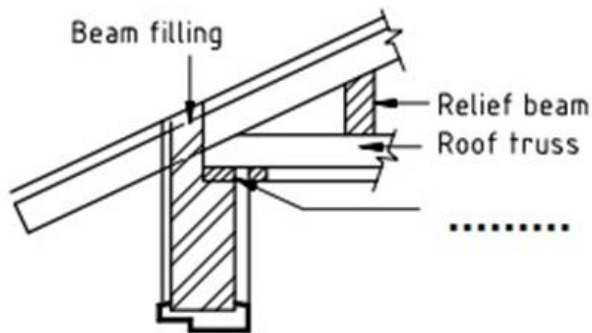
Select ONE (1) from the following list(2 marks)

- | | |
|---|---------|
| A | 750 mm |
| B | 850 mm |
| C | 900 mm |
| D | 1200 mm |
| E | 1000 mm |

8.5

Fill in the missing word as identified in Figure 5 below. (2)

Figure 5



Section A-A

Select ONE (1) from the following list(2 marks)

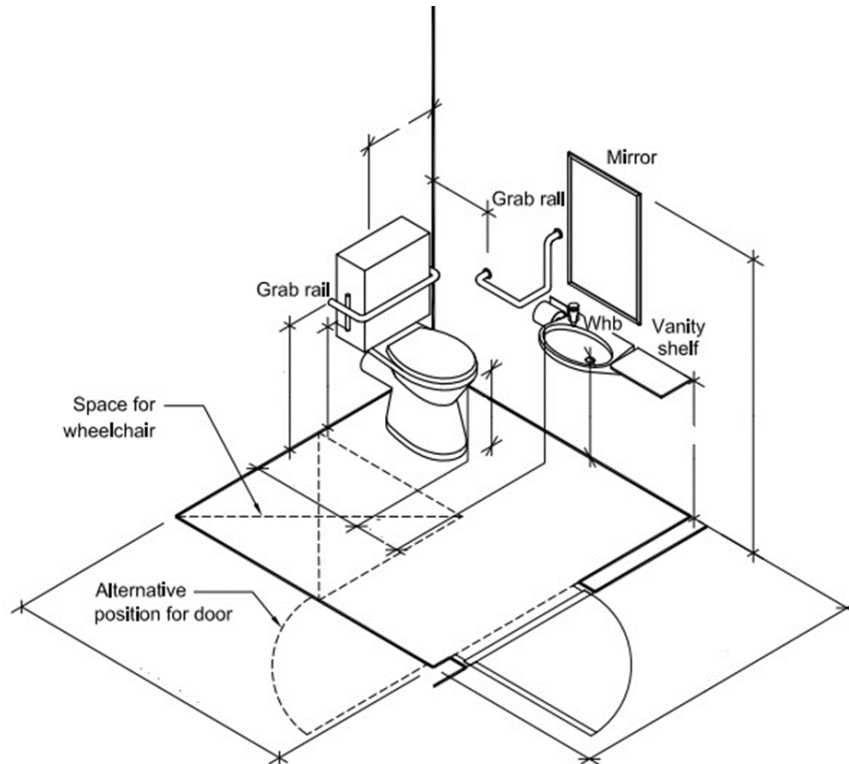
- | | |
|---|------------|
| A | Lintol |
| B | Roof wire |
| C | Wall Plate |
| D | Cavity |
| E | Plaster |

8.6

Toilet facilities for people with disabilities have a specific layout. The distance from the ground level to the grab rail as indicated in Figure 5 ismm. Select ONE (1) from the following list (2 marks)

(2)

Figure 6



Select ONE (1) from the following list(2 marks)

- | | |
|---|--------|
| A | 650 mm |
| B | 600 mm |
| C | 700 mm |
| D | 740 mm |
| E | 500 mm |