



SOUTH AFRICAN COUNCIL FOR THE LANDSCAPE ARCHITECTURAL PROFESSION

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REGISTRATION EXAMINATION

SECTION 3: ENVIRONMENTAL MANAGEMENT

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No.	Question	Points
1.	Environmental Management	
1.1	List two environmental management principles set by Government for sustainable development in South Africa?	2
1.2	What biological controls are currently available for invasive alien vegetation.	2
1.3	Which principles deal with pollution in NEMA?	2
1.4	What environmental issues would you consider as important in a Construction Phase Environmental Management Plan (CEMP) for a new hotel development in a semi natural environment with cultural significance. Describe mitigation for each issue.	6
2.	Environmental Planning	
2.1	Illustrates, by way of a diagram, the concept of sustainable development?	2
2.2	Describe two agreements (initiatives) reached at the World Summit on Sustainable Development held in Johannesburg a few years ago.	2
2.3	Illustrate by means of a diagram the relationship between SEA and EIA. List four benefits of a SEA?	6
2.4	Due to urban encroachment natural habitats are becoming increasingly fragmented and threatened in low-lying areas. Why do the remaining patches of habitat remain important in and around our urban areas? What important conservation initiative is currently underway in the Thicket Biome of the Eastern Cape?	2
3	Impact Assessment	
3.1	How does and EAP (environmental assessment practitioner) determine whether a basic assessment or scoping process must be applied to an application for an environmental authorization in terms of R. 385 regulations of the National Environmental Management Act	2
3.2	What is the value of an Alternative Analysis as part of the Scoping or EIA report?	2
3.3	What methods of notification must be used in the public participation process in terms of the NEMA Environmental Impact Assessment Regulations and what is the minimum information to be provided in a notice.	6
	Please categorize the following activities in terms of the new draft EIA regulations? (a) An infill development of 7 ha on undeveloped land (b) A golf course covering 15 ha	2
4	Rehabilitation	
4.1	List methods used to manage/rehabilitate diesel spills on a construction site?	4
4.2	In the rehabilitation of a river bank in an urban area, following severe flood damage, what is the overriding criterion in the evaluation of rehabilitation options?	2
4.3	Describe the rehabilitation options for a sand mine in a Zululand coastal dune field. Illustrate graphically.	6

No.	Question	Points
5	Government Legislation and Regulations	
5.1	<p>A farmer wants to establish the following infrastructure on a farm used for grazing:</p> <ul style="list-style-type: none"> • A game farm/lodge covering an area of 6 000m² • A 5 km long access road through an area suspected to contain red data plant species (a sensitive ridge environment) • A borrow pit for supplying material for road and building construction • A small bridge over a river that transects the farm to gain access to the lodge and a dam at the lodge to attract game <p>List three different acts in terms of which the farmer will need to obtain environmental permission and explain why each act is applicable.</p>	6
5.2	What must be contained in a Heritage Impact Report?	6
6	Landscape/Visual Character Assessment	
6.1	What is the primary difference between a Visual Sensitivity Analysis and a Visual Impact Assessment?	2
6.2	List at least four (4) computer software packages one could use to assist a practitioner in assessing landscape/visual character.	4
6.3	As the principle environmental consultant, prepare a brief for your visual specialist to undertake a visual impact assessment of a proposed cell phone mast on a prominent hilltop in a conservation area adjacent to a scenic route.	6
	TOTAL	72