



SACLAP

**SOUTH AFRICAN COUNCIL FOR THE
LANDSCAPE ARCHITECTURAL PROFESSION**
REGISTRATION EXAMINATION

MARCH 2009

SECTION 3: ENVIRONMENTAL MANAGEMENT

No.	Question	Points
1.	Environmental Management	(10 in total)
1.1	List two environmental management principles set by Government for sustainable development in South Africa?	1
1.2	What mechanical controls are currently available for invasive alien vegetation.	2
1.3	Record in full the principle dealing with the use and exploitation of non-renewable natural resources in NEMA?	1
1.4	What environmental issues would you consider as important in an Operational Phase Environmental Management Plan (OEMP) for a new hotel development in an urban open space with cultural significance, (such as Groenkloof Nature Reserve, Melville Koppies, or against the lower slopes of Table Mountain) Describe mitigation measures for each issue.	6
2.	Environmental Planning	(10 in total)
2.1	Illustrates, by way of a diagram, the concept of sustainable development?	1
2.2	Describe two agreements (initiatives) reached at the World Summit on Sustainable Development held in Johannesburg a few years ago.	1
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?	2
3	Impact Assessment	(15 in total)
3.1	How does an EAP express his or her independence in terms of R. 385 of the National Environmental Management Act	1
3.2	What is the value of the alternative development proposals as part of the Scoping or EIA report?	1
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
3.4	Please provide all the listed activities that are applicable to the following development? An infill commercial development of 45 ha on undeveloped land with no Municipal services and a red data bat species occurring along the stream running through the centre of the site. The site has a maximum of 19 hectares of development area.	7

4	Rehabilitation	(8 in total)
4.1	List methods used to manage/rehabilitate diesel spills on a construction site?	2
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 rehab options?	2
4.3	Describe the rehabilitation options for a granite mine in a Rustenburg. Illustrate graphically.	4
5	Government Legislation and Regulations	(12 in total)
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 legislation regulates Heritage Impact Assessments? What should be provided in a HIA?	6
6	Landscape/Visual Character Assessment	(8 in total)
6.1	What is the primary difference between a Sense of Place Analysis and a Visual Impact Assessment?	1
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.	3
	TOTAL	63