



**SACLAP**  
**SOUTH AFRICAN COUNCIL FOR THE**  
**LANDSCAPE ARCHITECTURAL PROFESSION**  
 REGISTRATION EXAMINATION  
**SECTION 3: ENVIRONMENTAL MANAGEMENT**

MARCH 2010

<b>No.</b>	<b>Question</b>	<b>Points</b>
<b>1.</b>	<b>Environmental Management</b>	<b>(10 in total)</b>
1.1	List two environmental management principles set by Government for sustainable development in South Africa?	<b>1</b>
1.2	Explain the term “biological controls” for invasive alien vegetation.	<b>2</b>
1.3	Record in full the NEMA principle dealing with environmental management and people?	<b>1</b>
1.4	What environmental issues would you consider as important in a Construction Phase Environmental Management Plan (CEMP) 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.	<b>6</b>
<b>2.</b>	<b>Environmental Planning</b>	<b>(8 in total)</b>
2.1	Illustrates, by way of a diagram, the concept of sustainable development?	<b>1</b>
2.2	Explain the focus of the Copenhagen Conference held in 2009	<b>1</b>
2.3	List four <b>components</b> of a SEA?	<b>4</b>
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?	<b>2</b>
<b>3</b>	<b>Impact Assessment</b>	<b>(14 in total)</b>
3.1	Who needs to express his or her independence in terms of R. 385 of the National Environmental Management Act?	<b>1</b>
3.2	What is the value of the alternative development proposals as part of the Basic Assessment, Scoping or EIA report?	<b>1</b>

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?  A rural development on a game farm outside the urban edge, that will utilize bore hole water, and will have its own sewer treatment facility on site. The access road crosses the adjacent farm and the game fencing is shared with all four adjacent owners. The property of 500 ha but the site has a maximum of 19 hectares of development area.	6
<b>4</b>	<b>Rehabilitation</b>	<b>(8 in total)</b>
4.1	List methods used to manage/rehabilitate cement 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 sand mine in the Northern Cape. Illustrate graphically.	4
<b>5</b>	<b>Government Legislation and Regulations</b>	<b>(12 in total)</b>
5.1	A land owner wants to establish the following infrastructure on a farm currently used for grazing: <ul style="list-style-type: none"> <li>• A clinic and spa covering an area of 6 000m<sup>2</sup></li> <li>• A 1 km long access road through an area suspected to contain red data plant species (a sensitive ridge environment)</li> <li>• A borrow pit for supplying material for road and building construction</li> <li>• A dam for aesthetic purposes with a volume of 25000 cubm and a dam wall of 3 metres</li> <li>• A low level culvert crossing through a stream that transects the land to gain access to the spa</li> <li>•</li> </ul> List three different acts in terms of which the farmer will need to obtain environmental permission and explain why each act is applicable.	6
5.2	Which Authority administers Heritage Impact assessments? What should be provided in a HIA?	6
<b>6</b>	<b>Landscape/Visual Character Assessment</b>	<b>(8 in total)</b>
6.1	Explain the three terms <ul style="list-style-type: none"> <li>• visual intrusion,</li> <li>• visibility and</li> <li>• visual exposure</li> </ul>	3

6.2	List at least three (2) computer software packages one could use to assist a practitioner in assessing landscape/visual character and describe how they would be used.	<b>2</b>
6.3	As the principle environmental consultant, prepare a brief for your visual assessment specialist to undertake a visual impact assessment of a proposed rock borrowing pit against a prominent hill in a conservation area adjacent to a scenic route.	<b>3</b>
<b>TOTAL</b>		<b>60</b>