



SOUTH AFRICAN COUNCIL FOR THE LANDSCAPE ARCHITECTURAL PROFESSION

REGISTRATION EXAMINATION

MARCH 2011

SECTION 3: ENVIRONMENTAL MANAGEMENT

No.	Question	Points
1.	Environmental Management	(10 in total)
1.1	List four environmental management principles set by Government for sustainable development in South Africa?	4
1.2	Multilateral Environmental Agreements (MEAs) provide the global framework for governance in regions and countries. Name four of the agreements South Africa is engaged with.	4
1.3	Record in full the principle dealing with the use and exploitation of non-renewable natural resources in NEMA?	2
2.	Green Buildings	(10 in total)
2.1	Name and briefly describe the four provisions of the Green Star SA Eligibility Criteria.	4
2.2	Name at least three of the Office Green Star Rating Tool's environmental impact categories as well as the credits for each category.	6
3.	Environmental Planning	(15 in total)
3.1	Illustrate, by way of a diagram, the concept of sustainable development.	1
3.2	Name four of the eight Millennium Development Goals (MDGs) agreed to by the 192 United Nations member states and approximately 23 international organizations, to be achieved by the year 2015.	4
3.3	Illustrate by means of a diagram, the relationship between SEA and EIA. List four benefits of a SEA?	2
3.4	Name three essential ecological services provided by the natural environment?	3
3.5	Explain the value of open space in an urban environment. Name and briefly define three types of open space.	5



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4.	Impact Assessment	(15 in total)
4.1	Illustrate, by means of a flow diagram, the activities undertaken as part of a Basic Assessment, including the activities undertaken by the EAP and the competent authority. Indicate timeframes associated with the activities.	5
4.2	<p>Identify the listed activities (in terms of NEMA and NEM:WA) that may be applicable to the following development?</p> <p>The proposed development of a wind farm with a total minimum generation capacity of 200MW. The development will be undertaken in four 25MW phases using 3MW turbines. It is anticipated that connection to the electricity distribution network could be achieved through the use of an existing 66kV distribution power line and existing substation.</p> <p>There is currently no available infrastructure or services available at the proposed development site. The development will include the construction of temporary waste storage facilities for general and hazardous waste generated on the site.</p> <p>The proposed development site is regarded as untransformed (pristine).</p>	10
5.	Government Legislation and Regulations	(10 in total)
5.1	<p>A developer wants to establish the following infrastructure:</p> <ul style="list-style-type: none"> • A industrial complex covering an area of 21ha; • A 5km long access road crossing a river that traverses the proposed development site; • A temporary waste storage area. <p>List three different Acts in terms of which the developer will need to obtain environmental permission and explain why each Act is applicable.</p>	6
5.2	What legislation regulates Heritage Impact assessments?	1
5.3	Which authority is the custodian of heritage matters in South Africa today?	1
5.4	Can trees posses heritage value (Y/N) – motivate your answer.	1



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5.5	Name the Acts that deal with biodiversity conservation.	(2 items x 0.5 point) 1
6.	Landscape/Visual Character Assessment	(10 in total)
6.1	What is the primary difference between a Sense of Place Analysis and a Visual Impact Assessment?	(2 items x 1 point) 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 an overhead electricity line through the Natal Midlands adjacent to a scenic route.	(8 items x 0.5 point) 4
	TOTAL	70