



SACLAP

SOUTH AFRICAN COUNCIL FOR THE LANDSCAPE ARCHITECTURAL PROFESSION

REGISTRATION EXAMINATION

MARCH 2005

PART / SECTION 3: ENVIRONMENTAL MANAGEMENT

1. Environmental Management

- 1.1 What is your understanding of IEM? (1)
- 1.2 What biological controls are currently available for invasive alien vegetation. (1)
- 1.3 Which principles deal with pollution in NEMA? (1)
- 1.4 What environmental issues would you consider as important in a Construction Phase Environmental Management Plan for a new golf estate on steep, undulating terrain with indigenous vegetation and a natural stream running through it? Describe mitigation for each issue. (3)

2. Environmental Planning

- 2.1 Draw a diagram that illustrates the concept of sustainable development (1)
- 2.2 Where does SEA fit into the planning process? (1)
- 2.3 What is your understanding of Systematic Conservation Planning? (1)
- 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? (3)

3 Impact Assessment

- 3.1 What is your understanding of a cumulative impact and at what stage of the planning process should cumulative impacts be considered? (1)
- 3.2 In your own words, what is the essential difference between the new draft EIA regulations and the existing regulations? (1)
- 3.3 Please categorize the following activities in terms of the new draft EIA regulations? (1)
 - (a) An infill development of 7 ha on undeveloped land
 - (b) A golf course covering 15 ha
- 3.4 A farmer wants to establish a guesthouse on a portion of his farm zoned for agricultural use. What are the minimum requirements in order to obtain environmental authorization? (3)

4 Rehabilitation

- 4.1 List two methods for the mechanical control of invader plants (1)
- 4.2 What are the benefits of burning wetlands? (1)
- 4.3 How are fuel spills being managed on a construction site? (1)
- 4.4 Describe three rehabilitation measures for a borrow pit (temporary stone quarry) on a 1:4 slope in a high rainfall area. Illustrate graphically (3)

5 Government Legislation and Regulations

- 5.1 A minor public road in the southern Cape (near George) needs to be upgraded in order to cope with increased traffic flow through the area. In one place it runs through a dry type of Afromontane forest with protected yellowwood trees. It is further noted that the works will affect a ninety-year old bridge. Please list the environmental laws applicable to this project. **(1)**
- 5.2 Distinguish between a 'biological control reserve' and a 'demarcated area' in terms of the Conservation of Agricultural Resources Act **(1)**
- 5.3 Under which act can the Minister declare an area as a bioregion? What must a bioregional plan contain? **(1)**
- 5.4 What must be contained in a Heritage Impact Report? **(3)**