

# ADEC Examinations 2015-2016

## G11 Geoscience Exemplar Questions Mark-scheme



### Instructions - General

- All marks to be entered on the Check sheet
- Teachers must follow the mark scheme accurately and **not** alter mark allocations or reject questions.

### Instructions - short-answer questions:

- each marking point ends in a ;
- alternative answers separated by a /
- words in ( ) are not required

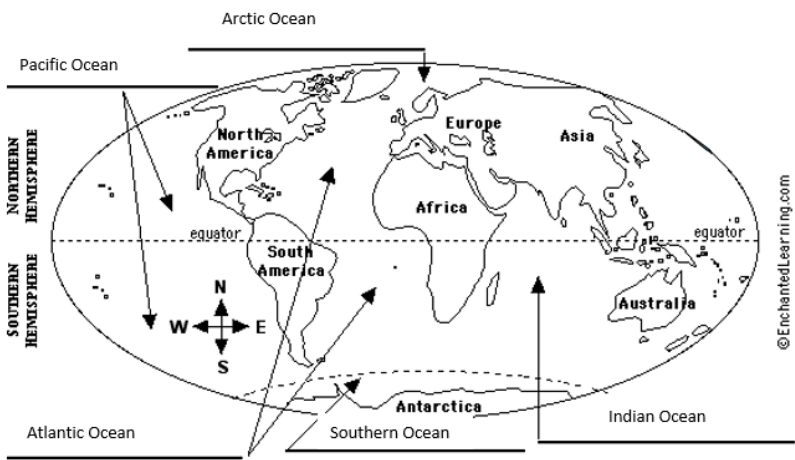
### 1. GIGM 4 Water Resources in the UAE

(a) List the 3 main water resources in the UAE:	(b) Describe at least one source of each of the main water resources in the UAE:	(c) Compare how each of the water resources in the UAE is produced:	GIGM4 N E D M
<b>Groundwater</b>	Acceptable responses include- Surface runoff Falajes Wadis Springs	Water is pumped from wells in the ground or taken directly from falajes, wadis or springs, then filtered and disinfected.	
<b>Desalinated water</b>	Acceptable responses include- Seawater Saline water Brackish water Ocean Arabian Gulf	Saline water is brought to the desalination plant where the salts and minerals are then filtered and removed from the saline water.	
<b>Recycled/ Treated waste water</b>	Acceptable responses include- Sewage from homes and businesses Waste water from homes and businesses Water that has been used by people	Waste water is filtered (to remove particles) and disinfected with chemicals (to kill germs).	
<p>(a) E must name <b>ALL 3</b> sources of water in the UAE correctly (listed in any order).</p> <p>(b) E if students list the 3 water resources correctly in this table only; <b>D</b> if they list <b>at least one</b> source for each of the water resources named beside the correct water resource.</p> <p>(c) E if students list the 3 water resources correctly in this table only; <b>D</b> if they list <b>at least one</b> source for each of the water resources named beside the correct water resource; <b>M</b> must describe the <b>process of production</b> for each of the resources named correctly beside the appropriate resource.</p>			

### 2. Saline bodies of water GINR4

(a)						GINR4 N E D M
	<b>Ocean:</b>	<b>1. Pacific</b>	<b>2. Indian</b>	<b>3. Southern</b>	<b>4. Arctic</b>	<b>5. Atlantic</b>
<p>E if all 5 oceans are named correctly in any order (students can also circle the correct 5 oceans in the list provided, but NOT all of the names in the list)</p>						

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<p>(b)</p>	 <p>E if all 5 oceans are named correctly on the map (even if they are not in the correct position) D if all 5 oceans are correctly located on the map (as shown on the map above)</p>	
<p>(c)</p>	<p>For <b>M</b>, students must name and at least one activity that occurs in the Arabian Gulf or the Gulf of Oman (or any of the 7 saline bodies of water that surround the UAE) including any one of the following AND they must also explain how this activity/activities is important to the economy of the UAE. Acceptable activities include:</p> <p>oil, natural gas, fishery, seafood (commercial fishing), pearls, salt, trading, desalinated water, tourism, tidal and wave energy (natural resource)</p> <p>For example:</p> <p><b>Trading</b> is one activity that occurs in the Arabian Gulf- this is important because it provides money into the UAE when items are traded with other countries by boats.</p>	