Assignment 0

The due date for submitting this assignment has passed. Due on 2018-01-22, 00:00 IST.

Submitted assignment

This assignment is to test the pre-requisite knowledge of the student. It will not be calculated in grading purpose.

Multiple choice questions each carrying one mark.

1) 1. The process by which water continually changes its form and circulates between oceans, atmosphere and land is called:

   - a) Water Cycle
   - b) Tides
   - c) Ocean Currents
   - d) Moisture recycling

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   a) Water Cycle

2) 2. Which sector in India consumes maximum water?

   - a) Industrial Sector
   - b) Agricultural Sector
   - c) Domestic Use
   - d) Hydro-power Use

   No, the answer is incorrect.
   Score: 0
   Accepted Answers:
   b) Agricultural Sector

3) 3. Ganga Action Plan Phase-II focused on developing sewage treatment plants in the states of:

   - a) 1 point

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Funded by
4) Management (excluding policy making) of urban water supply systems falls under the jurisdiction of:

- a) State Government
- b) Central Government
- c) Municipal Bodies
- d) All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
- b) Uttar Pradesh, Bihar, and West Bengal

5) The three R's that favor the concept of Sustainable Development, are:

- a) Reserve, Reduce, Recycle
- b) Reuse, Reserve, Reduce
- c) Reserve, Reuse, Reprocess
- d) Reduce, Reuse, Recycle

No, the answer is incorrect.
Score: 0
Accepted Answers:
- c) Municipal Bodies

6) Which of the following is a unit of flow rate?

- a) meter/second
- b) liters/meter
- c) meter$^3$/second
- d) liters/capital/day

No, the answer is incorrect.
Score: 0
Accepted Answers:
- c) meter$^3$/second

7) Within a hydrologic system, the difference of inflow minus outflow quantifies:

- a) Soil moisture
- b) Change in Storage
- c) Evaporation
- d) Runoff

No, the answer is incorrect.
Score: 0
Accepted Answers:
- b) Change in Storage
8) NRW typically used for assigning system efficiency of water utilities, stands for: 1 point
- a) Non-Revenue Water
- b) Non-Renewable Water
- c) Non-Rechargeable Water
- d) Non-Reachable Water

No, the answer is incorrect.
Score: 0
Accepted Answers:
- a) Non-Revenue Water

9) A major in-stream use of water is for: 1 point
- a) Producing hydroelectric power
- b) Dissolving industrial wastes
- c) Agricultural irrigation
- d) Domestic use

No, the answer is incorrect.
Score: 0
Accepted Answers:
- a) Producing hydroelectric power

10) Which is the major water challenge in our country today? 1 point
- a) Poor water quality of surface waters and groundwater
- b) Insufficient flow in most of the rivers, particularly in dry weathers
- c) Lowering groundwater tables
- d) All of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
- d) All of the above

Numerical type questions each carrying two marks.

11) Water demand of 120 MLD for a city will be equivalent to: 2 points
- a) 5m³/s
- b) 1390m³/s
- c) 1.39m³/s
- d) 5000m³/s

No, the answer is incorrect.
Score: 0
Accepted Answers:
- c) 1.39m³/s

12) A hydrologic sub-basin of total area 1200 hectares receives 1400 mm annual rainfall. The total annual evapotranspiration and infiltration was estimated at 650 mm and 350 mm, respectively. Ignoring the storage and other losses, what will be the average daily runoff (stream-flow) generated from the basin? 2 points
sub-basin?

a) 13150 m³
b) 11507 m³
c) 21370 m³
da) 9863 m³

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 13150 m³

Match the columns each carrying three marks.

13 Match the columns:

<table>
<thead>
<tr>
<th>a) Water evaporating from plants</th>
<th>i) Infiltration</th>
</tr>
</thead>
<tbody>
<tr>
<td>b) Rainwater seeping through soil to reach groundwater</td>
<td>ii) Surface run-off</td>
</tr>
<tr>
<td>c) The overflow of excess rainwater to lower aligned areas</td>
<td>iii) Transpiration</td>
</tr>
</tbody>
</table>

(a)-(iii) (b)-(i) (c)-(ii)  
(a)-(i) (b)-(ii) (c)-(iii)  
(a)-(i) (b)-(ii) (c)-(iii)  
(a)-(ii) (b)-(i) (c)-(iii)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a)-(ii) (b)-(i) (c)-(iii)

14 Match the columns:

<table>
<thead>
<tr>
<th>a) Incremental amount needed for adding one unit of product or services</th>
<th>i) Average Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>b) The quantification of social and environmental benefits or cost</td>
<td>ii) Marginal Cost</td>
</tr>
<tr>
<td>c) The ratio of total cost to total quantity produced</td>
<td>iii) Externaties</td>
</tr>
</tbody>
</table>

(a)-(i) (b)-(i) (c)-(iii)  
(a)-(iii) (b)-(i) (c)-(ii)  
(a)-(i) (b)-(ii) (c)-(i)  
(a)-(iii) (b)-(ii) (c)-(i)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a)-(i) (b)-(ii) (c)-(i)