

Model Question Paper
Waste Water Management (B) - Part I

10th Standard

Science

Reg.No. :

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I. Answer all the questions.

II. Use Blue pen only.

III. Question No 15 is compulsory

Time : 01:15:00 Hrs

Total Marks : 60

4 x 1 = 4

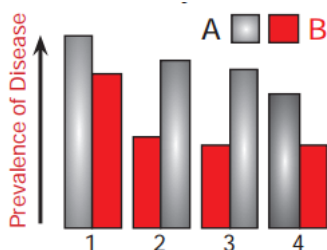
Section-A

- 1) An example of water-borne disease is _____.
(a) scabies (b) dracunculiasis (c) trachoma (d) typhoid
- 2) The sedimented and floating materials are removed by this treatment process.
(a) primary treatment (b) secondary treatment (c) tertiary treatment (d) peripheral treatment
- 3) Which is a non-renewable resource?
(a) coal (b) petroleum (c) natural gas (d) all the above
- 4) _____ is the chief component of natural gas.
(a) ethane (b) methane (c) propane (d) butane

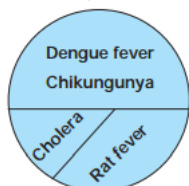
Section-B

6 x 2 = 12

- 5) The bar-graph indicates the prevalence / widespread attack of infectious diseases in two cities A and B. Observe it and answer the questions given below: 1. Dengue fever 2. Rat fever 3. Cholera 4. Chikungunya a. What may be the reason for the disease in city A? b. Which city needs more effective system of waste-disposal and cleaning? c. How can the disease be controlled in city A?



- 6) The pie diagram represents a survey result of infectious diseases in a village during 2008 – 2009. Analyse it and answer the following



- i) Which diseases affect the majority of the population? ii) How are these diseases transmitted? iii) Mention any three measures that can control the other two diseases.
 - 7) Match the suitable renewable and non-renewable sources.
- | Source | A | B | C |
|---------------|----------|---------|-----------|
| Renewable | Coal | Wind | Petroleum |
| | | Natural | Solar |
| Non-Renewable | Hydrogen | gas | energy |
- 8) Find the odd one out: i) bioalcohol, green diesel, bioethers, petroleum ii) cholera, typhoid, scabies, dysentery
 - 9) A non-renewable resource is a natural resource, if it is replaced by natural process at a rate equal to or faster than its rate of consumption by humans. Read this statement and say whether it is correct or incorrect. If it is incorrect, give the correct statement.
 - 10) Pick out the appliances that can conserve electric energy. Florescent bulbs, copper choke, solar water heater, electric water heater, tungsten bulbs, electronic choke.

Section-C

9 x 5 = 45

- 11) Observe the picture given below and find out what type of energy is produced i) Identify whether this energy is conventional or nonconventional. ii) Draw the given diagram and label it with the parts given below:(battery, battery charger controller, solar incidence, DC load, battery system) iii) In the given picture, _____energy is transformed

into _____energy.



12) i) What type of energy is produced in this picture? ii) What difficulties do we face in harnessing this energy? Explain. iii) Why do we say that this energy is better than solar



energy and atomic energy?

- 13) Fossil fuels are formed by decomposition of biomass buried under the earth over millions of years ago. i) Name any three fossil fuels. ii) Which fuel is used in the production of fertilizers? iii) What is natural gas made up of?
- 14) Wind power is generated from uneven heating of the earth's surface by the sun and the hot core. i) Which country is called the country of winds? ii) Which country leads the world in harnessing wind energy? iii) In which district of Tamilnadu do we have wind energy farm? iv) In which of the following land forms will you be able to harness maximum amount of wind energy? (plains, canals, valleys)
- 15) Match the following:

Water Borne diseases	Water related diseases	Water based diseases
Typhoid	dengue	scabies
Malaria	amoebiasis	cholera
filariasis	lice	trachoma

- 16) Water contaminated by human beings, chemical or industrial wastes can cause a variety of communicable diseases through ingestion or physical contact. i) Name any two diseases caused by polluted water. ii) Why do we drink boiled water? iii) How can you reuse waste water in your houses?
- 17) Water, a precious physical substance, is essential to all living organisms. i) Which is the largest water resource? ii) What are the various sources of water? iii) Which is the primary source of water? iv) What are the ways by which you can raise the ground water level in your house?
- 18) An energy audit is an inspection, survey and analysis of energy flow to ensure energy conservation in a building, process or system. i) How will you measure consumption of electrical energy at home? ii) What are the benefits of implementing this method in your school?
- 19) We should manage the waste water in order to prevent water pollution and its harmful effects. i) What are the ways by which water gets contaminated? ii) How will you control water contamination in your house?

