

GOVERNMENTT. GENERAL DEGREE COLLEGE, KALNA-I

MODEL QUESTIONS (MCQ)

PAPER NAME: NATURAL RESOURCES & SUSTAINABLE DEVELOPMENT

PAPER CODE: ENVSC 1031(ENVSC Multidisciplinary: COURSE NO. 1)

TOTAL CREDIT: 3

TIME: 2 Hours

MARKS: 40

UNIT-1: Natural resources

1. Which of the following is a renewable natural resource?

- a) Coal
- b) Natural gas
- c) Wind
- d) Petroleum

Answer: c) Wind

2. Which natural resource is primarily responsible for generating electricity in hydroelectric power plants?

- a) Coal
- b) Water
- c) Natural gas
- d) Wind

Answer: b) Water

3. Which of the following is not considered a fossil fuel?

- a) Coal
- b) Natural gas
- c) Solar energy
- d) Petroleum

Answer: c) Solar energy

4. Which natural resource is essential for the production of plastics, gasoline, and various other products?

- a) Coal

- b) Natural gas
- c) Petroleum
- d) Wind

Answer: c) Petroleum

5. What is the primary source of energy in nuclear power plants?

- a) Coal
- b) Uranium
- c) Natural gas
- d) Solar energy

Answer: b) Uranium

6. Which natural resource is obtained through the process of drilling?

- a) Coal
- b) Natural gas
- c) Wind
- d) Biomass

Answer: b) Natural gas

7. Which of the following is a non-metallic mineral resource?

- a) Iron ore
- b) Copper
- c) Salt
- d) Bauxite

Answer: c) Salt

8. Which natural resource is primarily used for heating and cooking in many households?

- a) Coal
- b) Natural gas
- c) Petroleum

d) Biomass

Answer: d) Biomass

9. Which natural resource is primarily responsible for causing air pollution when burned for energy?

a) Coal

b) Natural gas

c) Wind

d) Solar energy

Answer: a) Coal

10. Which of the following is a renewable natural resource derived from plant and animal matter?

a) Coal

b) Natural gas

c) Biomass

d) Petroleum

Answer: c) Biomass

UNIT 2: Biotic and water resources

1. Which of the following is an example of a biotic resource?

a) Soil

b) Minerals

c) Trees

d) Fossil fuels

Answer: c) Trees

2. What are biotic resources primarily composed of?

a) Inorganic materials

b) Living organisms

c) Water

d) Air

Answer: b) Living organisms

3. Which of the following is a non-renewable biotic resource?

a) Timber

b) Fish

c) Petroleum

d) Wind

Answer: c) Petroleum

4. How do humans typically utilize biotic resources?

a) Extraction and processing

b) Direct consumption

c) Chemical synthesis

d) All of the above

Answer: d) All of the above

5. Which of the following is not a type of water resource?

a) Surface water

b) Groundwater

c) Rainwater

d) Biomass

Answer: d) Biomass

6. What is the largest reservoir of freshwater on Earth?

a) Lakes

b) Rivers

c) Glaciers and ice caps

d) Underground aquifers

Answer: c) Glaciers and ice caps

7. Which of the following is a major threat to water resources worldwide?

- a) Overabundance of rainfall
- b) Pollution
- c) Excessive groundwater recharge
- d) Desalination technology

Answer: b) Pollution

8. What is the term for the process of removing salt and other minerals from seawater to obtain freshwater?

- a) Desalination
- b) Distillation
- c) Filtration
- d) Evaporation

Answer: a) Desalination

9. Which of the following factors can affect the quality of surface water?

- a) Industrial discharge
- b) Agricultural runoff
- c) Urbanization
- d) All of the above

Answer: d) All of the above

10. Which of the following is a method for conserving water resources?

- a) Rainwater harvesting
- b) Deforestation
- c) Increased irrigation
- d) Groundwater overdraft

Answer: a) Rainwater harvesting

UNIT-3: Soil and mineral resources

1. What is soil primarily composed of?

- a) Rocks and minerals
- b) Air and water
- c) Organic matter and minerals
- d) Fossil fuels

Answer: c) Organic matter and minerals

2. Which of the following is not a function of soil?

- a) Providing habitat for organisms
- b) Filtering pollutants from water
- c) Storing carbon dioxide
- d) Generating electricity

Answer: d) Generating electricity

3. Which type of soil has the smallest particle size and the highest fertility?

- a) Sand
- b) Silt
- c) Clay
- d) Loam

Answer: c) Clay

4. What is the process of soil erosion?

- a) Addition of minerals to soil
- b) Movement of soil particles by wind or water
- c) Formation of soil layers
- d) Decomposition of organic matter

Answer: b) Movement of soil particles by wind or water

5. Which of the following is not a factor contributing to soil degradation?

- a) Deforestation
- b) Overgrazing
- c) Soil conservation practices
- d) Urbanization

Answer: c) Soil conservation practices

6. Which mineral resource is primarily used for construction purposes?

- a) Gold
- b) Silver
- c) Iron ore
- d) Copper

Answer: c) Iron ore

7. What is the process of extracting valuable minerals or other geological materials from the earth?

- a) Agriculture
- b) Mining
- c) Deforestation
- d) Irrigation

Answer: b) Mining

8. Which of the following is an example of a non-metallic mineral resource?

- a) Gold
- b) Copper
- c) Salt
- d) Iron ore

Answer: c) Salt

9. Which mineral resource is primarily used for manufacturing electrical wires and plumbing pipes?

- a) Aluminum
- b) Zinc
- c) Copper
- d) Silver

Answer: c) Copper

10. What is the term for the concentration of naturally occurring solid, liquid, or gaseous material in or on the Earth's crust?

- a) Resource depletion
- b) Mineral exploration
- c) Mineral deposit
- d) Soil erosion

Answer: c) Mineral deposit

UNIT-4: Energy resources

1. Which of the following is a non-renewable energy resource?

- a) Solar power
- b) Wind power
- c) Coal
- d) Hydroelectric power

Answer: c) Coal

2. What is the primary source of energy in fossil fuels?

- a) Wind
- b) Sunlight
- c) Radioactive decay
- d) Organic matter from ancient plants and animals

Answer: d) Organic matter from ancient plants and animals

3. Which renewable energy resource relies on the Earth's internal heat?

- a) Solar power
- b) Geothermal energy
- c) Biomass
- d) Hydroelectric power

Answer: b) Geothermal energy

4. Which energy resource converts sunlight directly into electricity?

- a) Wind power
- b) Biomass
- c) Solar power
- d) Nuclear power

Answer: c) Solar power

5. Which renewable energy resource relies on the gravitational force of water?

- a) Geothermal energy
- b) Biomass
- c) Hydroelectric power
- d) Tidal power

Answer: c) Hydroelectric power

6. Which of the following is a drawback of nuclear power?

- a) Limited availability of fuel
- b) Air pollution
- c) Greenhouse gas emissions
- d) Risk of accidents and radioactive waste

Answer: d) Risk of accidents and radioactive waste

7. Which renewable energy resource involves burning organic matter to generate electricity?

- a) Hydroelectric power

- b) Solar power
- c) Biomass
- d) Tidal power

Answer: c) Biomass

8. Which energy resource is primarily responsible for causing air pollution and greenhouse gas emissions?

- a) Coal
- b) Wind power
- c) Geothermal energy
- d) Nuclear power

Answer: a) Coal

9. What is the primary advantage of wind power?

- a) It is highly reliable
- b) It produces no air pollution or greenhouse gas emissions
- c) It is expensive to build and maintain
- d) It requires a large amount of land

Answer: b) It produces no air pollution or greenhouse gas emissions

10. Which renewable energy resource is still under development and involves harnessing energy from ocean tides and waves?

- a) Tidal power
- b) Geothermal energy
- c) Biomass
- d) Solar power

Answer: a) Tidal power

UNIT-5: Sustainable Development

1. What is the primary goal of sustainable development?

- a) Maximizing economic growth
- b) Minimizing environmental impact
- c) Exploiting natural resources
- d) Promoting social inequality

Answer: b) Minimizing environmental impact

2. Which of the following is a key principle of sustainable development?

- a) Prioritizing short-term economic gains
- b) Focusing solely on economic growth
- c) Balancing economic, social, and environmental aspects
- d) Ignoring the needs of future generations

Answer: c) Balancing economic, social, and environmental aspects

3. What does the term "SDGs" stand for in the context of sustainable development?

- a) Sustainable Development Goals
- b) Sustainable Development Guidelines
- c) Sustainable Development Guidelines
- d) Sustainable Development Guidelines

Answer: a) Sustainable Development Goals

4. How many Sustainable Development Goals (SDGs) were adopted by the United Nations in 2015?

- a) 5
- b) 10
- c) 17
- d) 20

Answer: c) 17

5. Which of the following is not one of the Sustainable Development Goals (SDGs)?

- a) No Poverty

- b) Quality Education
- c) Gender Inequality
- d) Clean Water and Sanitation

Answer: c) Gender Inequality

6. Which Sustainable Development Goal focuses on ensuring access to clean water and sanitation for all?

- a) Zero Hunger
- b) Clean Energy
- c) Clean Water and Sanitation
- d) Climate Action

Answer: c) Clean Water and Sanitation

7. Which Sustainable Development Goal aims to promote sustained, inclusive, and sustainable economic growth, full and productive employment, and decent work for all?

- a) Decent Work and Economic Growth
- b) Industry, Innovation, and Infrastructure
- c) Sustainable Cities and Communities
- d) Reduced Inequalities

Answer: a) Decent Work and Economic Growth

8. Which Sustainable Development Goal focuses on taking urgent action to combat climate change and its impacts?

- a) Life Below Water
- b) Climate Action
- c) Life on Land
- d) Peace, Justice, and Strong Institutions

Answer: b) Climate Action

9. Which Sustainable Development Goal aims to conserve and sustainably use the oceans, seas, and marine resources for sustainable development?

- a) Life Below Water

- b) Responsible Consumption and Production
- c) Climate Action
- d) Life on Land

Answer: a) Life Below Water

10. Which of the following is a method for promoting sustainable development?

- a) Exploiting natural resources without limits
- b) Ignoring social and environmental concerns
- c) Balancing economic growth with social equity and environmental protection
- d) Focusing solely on short-term economic gains

Answer: c) Balancing economic growth with social equity and environmental protection

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