

## Sample Paper II

- 1) According to Darwin's theory of evolution, differences between species may be a result of which of the following?
  - a) The disuse of body structures
  - b) The transmission of acquired characteristics
  - c) Natural selection
  - d) Mutagenic agents
  
- 2) The place where an earthquake originates inside the earth is called its focus. What is the point on the earth's surface vertically above the focus called?
  - a) Epicentre
  - b) Epix
  - c) Centre
  - d) None of the above
  
- 3) Mercury occurs naturally on the earth's crust. It is released into the environment by volcanic activity, weathering of rocks, and also human activity. Which neurological disorder is caused by mercury poisoning?
  - a) Bright's disease
  - b) Hiroshima disease
  - c) Minamata disease
  - d) Osteosclerosis
  
4. Which of the following best describes the geological formation of an aquifer?
  - a) Does not contain water
  - b) Contains water but does not transmit
  - c) Is a rock outcrop
  - d) Contains and transmits water
  
5. The Four Pests Campaign of China was initiated in 1958 as a hygiene campaign aimed at eliminating the four common pests, three of which were rats, flies, and mosquitoes. The extermination of the fourth had upset the ecological balance and enabled crop-eating insects to proliferate. Identify the fourth pest.
  - a) Bees
  - b) Silkworm
  - c) Bedbugs
  - d) Sparrow
  
6. A rainforest has four layers. Which layer lies below the emergent layer?
  - a) Forest floor
  - b) Canopy
  - c) Under storey
  - d) There is no layer beneath the emergent layer

7. LED is an efficient semiconductor light source used as indicator lamps in many devices as well as in households, and for other lighting purposes. It is energy-efficient, durable, and long lasting. What does LED stand for?

- a) Light-emitting diode
- b) Light-efficient diode
- c) Light-energy diode
- d) Light-emission diode

8. This ornamental invasive plant from South America has spread all over the globe because of human actions. The dense mats of this plant, which grows on fresh water bodies chokes out native vegetation and fish by reducing the dissolved oxygen content of the water. Which is this plant?

- a) Water Hyacinth
- b) Water Lily
- c) Lotus
- d) Blue Iris

9. The “grey blanket” over Australia refers to the sporadic spread of a particular animal, which causes extensive agricultural damage to Australia every year. Which is this animal?

- a) Rat
- b) Rabbit
- c) Kangaroo
- d) Koala Bear

10. “Permafrost” is permanently frozen soil and occurs mostly in high latitudes storing a massive amount of a particular element. As a result of climate change, permafrost is at the risk of melting and releasing the stored element in the form of a gas. Identify the gas.

- a) Ozone
- b) Hydrogen
- c) Nitrogen oxide
- d) Carbon dioxide

Answer Key

1-c

2-a

3-c

4-d

5-d

6-b

7-a

8-a

9-b

10-d