- 1. Which of the following best describes the primary purpose of sewerage schemes?
- a) To provide clean drinking water
- b) To manage wastewater and stormwater
- c) To generate electricity
- d) To promote agricultural irrigation

Answer: b) To manage wastewater and stormwater

Explanation: Sewerage schemes are designed to collect, convey, and treat wastewater and stormwater to prevent pollution and ensure public health and environmental safety.

- 2. What is the main function of sewer appurtenances in a sewerage system?
- a) To increase sewage flow rate
- b) To reduce the size of sewers
- c) To facilitate maintenance and operation
- d) To remove pollutants from sewage

Answer: c) To facilitate maintenance and operation

Explanation: Sewer appurtenances such as manholes, cleanouts, and inspection chambers are installed in sewer systems to allow access for maintenance activities like cleaning, inspection, and repair.

Sewerage Systems MCQS

- 3. Which factor is primarily responsible for fluctuations in sewage flow in a sewerage system?
- a) Seasonal changes
- b) Industrial discharge
- c) Residential water usage
- d) Climate change

Answer: a) Seasonal changes

Explanation: Seasonal variations, such as increased water usage during summer months or heavy rainfall during monsoon seasons, can cause fluctuations in sewage flow rates within a sewerage system.

- 4. What is the purpose of pumps and pumping stations in sewerage systems?
- a) To increase water pressure in pipes
- b) To reduce water flow rate
- c) To transport sewage uphill
- d) To purify wastewater

Answer: c) To transport sewage uphill

Explanation: Pumps and pumping stations are utilized in sewerage systems to overcome elevation differences and transport sewage from lower-lying areas to treatment plants or discharge points, particularly in hilly terrain or urban areas with varying topography.

- 5. Which aspect is crucial in the design of sewers to prevent blockages and backups?
- a) Narrow diameter
- b) Smooth interior surfaces
- c) Irregular shapes
- d) Limited access points

Answer: b) Smooth interior surfaces

Explanation: Designing sewers with smooth interior surfaces helps prevent the accumulation of debris and sediment, reducing the risk of blockages and backups in the system.

- 6. What is the primary function of stormwater collection in a sewerage system?
- a) To provide water for irrigation
- b) To prevent flooding
- c) To increase wastewater flow
- d) To generate hydroelectric power

Answer: b) To prevent flooding

Explanation: Stormwater collection in a sewerage system helps mitigate the risk of urban flooding by efficiently channeling rainwater away from streets, buildings, and other infrastructure into drainage systems for proper disposal or treatment.

- 7. What is the primary purpose of maintaining sewers in a sewerage system?
- a) To increase sewage flow
- b) To reduce maintenance costs
- c) To ensure system longevity and functionality
- d) To decrease wastewater treatment efficiency

Answer: c) To ensure system longevity and functionality

Explanation: Regular maintenance of sewers is essential to preserve their structural integrity, prevent leaks or collapses, and ensure the continued functionality of the sewerage system over time.

- 8. In a sewerage system, what is the role of conveyance of sewage?
- a) To treat sewage

- b) To transport sewage
- c) To store sewage
- d) To recycle sewage

Answer: b) To transport sewage

Explanation: The conveyance of sewage involves transporting wastewater from its point of origin, such as households or industries, to treatment facilities or disposal points through a network of sewers.

- 9. Which factor is NOT typically considered in the design of sewers?
- a) Population density
- b) Soil composition
- c) Sewage color
- d) Rainfall patterns

Answer: c) Sewage color

Explanation: Sewage color is not a critical factor in sewer design, whereas population density, soil composition, and rainfall patterns are important considerations for determining sewer size, slope, and capacity.

- 10. What is the primary purpose of sewerage schemes in urban areas?
- a) To increase air pollution
- b) To promote groundwater contamination
- c) To ensure public health and sanitation
- d) To encourage wildlife habitat destruction

Answer: c) To ensure public health and sanitation

Explanation: Sewerage schemes play a vital role in urban areas by managing wastewater and stormwater to prevent environmental pollution, protect public health, and maintain sanitation standards.