Part A: Multiple Choice Questions

1.	Which of the f	following c	diseases is b	ooth communication	able and preven	table l	oy vaccinatior	ľ

- a) Malaria
- b) Typhoid
- c) Measles
- d) Asthma
- 2. What role do phagocytes play in the immune system's response to germs?
 - a) They produce antibodies.
 - b) They engulf and destroy harmful microbes.
 - c) They trigger allergic reactions.
 - d) They help in digestion.
- 3. Identify the primary method for managing congenital diseases.
 - a) Regular vaccination
 - b) Genetic counseling and prenatal care
 - c) Avoiding contact with sick people
 - d) Maintaining personal hygiene
- 4. What is the purpose of a vaccine?
 - a) To treat existing diseases
 - b) To prevent diseases by building immunity
 - c) To remove toxins from the body
 - d) To cure allergies
- 5. Allergies are triggered when the immune system:
 - a) Attacks harmful bacteria.
 - b) Reacts to harmless substances as threats.
 - c) Fails to recognize pathogens.
 - d) Completely shuts down.

Part B: Fill in the Blanks

1.	is an example of a vaccine-preventable viral disease.
2.	(bacteria/virus) are responsible for diseases like tuberculosis.
3.	Washing hands with helps eliminate most harmful microbes.
4.	diseases are inherited or caused by developmental issues before birth.
5.	is a common allergy symptom that affects the respiratory system.

Part C: True or False

- 1. Germs can be spread by touching infected objects. (True/False)
- 2. Vaccination completely eliminates the risk of contracting a disease. (True/False)
- 3. Personal hygiene practices do not affect the spread of congenital diseases. (True/False)
- 4. Congenital diseases can be caused by genetic mutations. (True/False)
- 5. All harmful microbes can be destroyed by antibiotics. (True/False)

Part D: Short Answer Questions

- 1. List and explain three ways germs are transmitted between individuals.
- 2. How can a clean environment prevent the spread of diseases? Provide examples.
- 3. Describe how harmful microbes like bacteria affect the human body.
- 4. Illustrate the path of a germ entering the respiratory system using a labeled diagram.
- 5. Why is it important to identify allergy triggers early?

Part E: Long Answer Questions

- 1. **Differentiate between communicable and non-communicable diseases.** Include examples and prevention methods.
- 2. **Explain the immune system's response to harmful microbes.** Use a diagram to show the process.
- 3. **Discuss the importance of vaccination in preventing diseases.** Include historical examples and challenges in vaccination campaigns.
- 4. **Describe congenital diseases in detail.** Explain their types, causes, and any preventive measures. Include examples.
- 5. **Design a poster** that highlights the importance of personal hygiene in disease prevention. Include at least three visuals or diagrams.

Answer Key with Detailed Explanations (Updated)

Part A: Multiple Choice Questions

- 1. c) Measles
 - Explanation: Measles is a vaccine-preventable communicable disease caused by a virus.
- 2. b) They engulf and destroy harmful microbes.
 - Explanation: Phagocytes are immune cells that protect the body by ingesting harmful microbes.
- 3. b) Genetic counseling and prenatal care
 - Explanation: Congenital diseases are best managed through prevention during pregnancy.
- 4. b) To prevent diseases by building immunity
- 5. b) Reacts to harmless substances as threats
 - Explanation: Allergies result from the immune system overreacting to allergens.

Part B: Fill in the Blanks

- 1. Measles
- 2. Bacteria
- 3. Soap and clean water
- 4. Congenital
- 5. Sneezing

Part C: True or False

- 1. True
- 2. False (Vaccination reduces but does not completely eliminate risks.)
- 3. True
- 4. True
- 5. False (Antibiotics are ineffective against viruses.)

Part D: Short Answer Questions

1. Transmission methods:

- Airborne (e.g., sneezing spreads flu germs).
- o Direct contact (e.g., touching infected wounds).
- Waterborne (e.g., cholera from contaminated water).

2. Clean environment:

- Prevents breeding of germs (e.g., covering garbage).
- Reduces contamination (e.g., safe food storage).

3. Effect of harmful microbes:

- Cause infections like tuberculosis by destroying tissue.
- Release toxins, leading to symptoms like fever.

4. Diagram:

 Germ enters nose → Travels down windpipe → Reaches lungs → Causes respiratory symptoms.

5. Importance of identifying allergy triggers:

- Prevents severe reactions like anaphylaxis.
- Helps manage allergies through avoidance and medication.

Part E: Long Answer Questions

1. Communicable vs. Non-communicable Diseases:

- o Communicable: Spread person-to-person (e.g., influenza).
- Non-communicable: Not infectious (e.g., diabetes).
- o Prevention: Hygiene for communicable, lifestyle changes for non-communicable.

2. Immune Response Diagram:

Germ enters → Phagocyte engulfs it → Antibodies produced → Germ destroyed.

3. Vaccination Importance:

- Example: Smallpox eradication through vaccines.
- Challenges: Misinformation and accessibility issues.

4. Congenital Diseases:

- Types: Genetic (e.g., Down syndrome), environmental (e.g., fetal alcohol syndrome).
- Causes: Mutations, lack of prenatal care.
- o Prevention: Regular check-ups, avoiding harmful substances during pregnancy.

5. Poster Design:

- Highlight handwashing, clean drinking water, and covering sneezes.
- o Include visuals like germs being washed away and a happy, healthy family.