

## BIOLOGY

### THIRUVANANTHAPURAM EDUCATIONAL DISTRICT

**BWS13 X**

Standard X

#### 5. SOLDIERS OF DEFENSE

#### Answerkey

1. **A** – Lymph  
**B** – Saliva  
**C** – Tears  
**D** – Skin  
**E** – A protein called keratin present here prevents the entry of germs  
**F** – Sebaceous glands  
**G** – The disinfectants present in the sweat destroy the germs.
2. **(i)** – Ear wax  
**(ii)** – Eye  
**(iii)** – Mucous  
**(iv)** – Lysozyme  
**(v)** – Mucous  
**(vi)** – HCl (Hydrochloric Acid)  
**(vii)** – Mucous  
**(viii)** – Lysozyme
3. **A** – Basophil  
**B** – Engulfs and destroys germs  
**C** – Engulfs bacteria and synthesizes chemicals that destroy bacteria.  
**D** – Identifies and destroy germs specifically.  
**E** – Synthesizes chemicals that destroy foreign bodies and synthesizes chemicals for inflammatory response.
4. **(a)** - Inflammatory response  
**(b)** **A** – Chemicals are produced  
**B** – White blood cells reach the wound site through the walls of the capillaries.

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5. a - Phagocytosis.

b - Neutrophils and Monocytes.

c - Phagocytes.

d - 1. Pathogens

2. Engulfs pathogen in the membrane sac.

3. Lysosome.

4. Lysosome combines with membrane sac.

5. The pathogens are degenerated and destroyed by the enzyme in lysosome.