



# Silent Bells



മരണശബ്ദം - അനുബന്ധ പഠനസഹായകസാമഗ്രി

Class: **10EM** Subject : **BIOLOGY** Date : **24.11.20** Worksheet No: **31** Class link: YouTube

## UNIT & LO : Unit 5, Soldiers of Defense

### 01 Analyse the Illustration and answer the questions:



- Tissues and platelets at the site of wound degenerate to form the enzyme called thromboplastin.
- Prothrombin in plasma  $\xrightarrow[\text{Calcium, Vitamin K}]{\text{Thromboplastin}}$  Thrombin
- Fibrinogen  $\xrightarrow{\text{Thrombin}}$  Fibrin fibres
- The red blood cells and platelets get entangled in the network of fibrin fibres to form the blood clot.

(a) Which is the enzyme that formed from the degenerated tissues in the wound ?  
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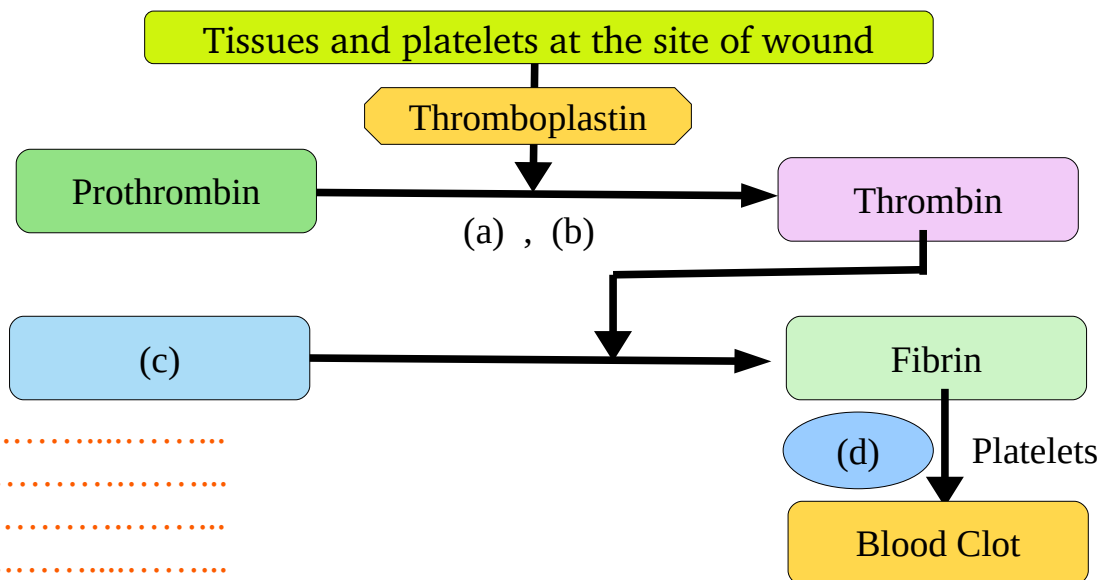
(b) Which are the factors needed for the formation of thrombin from prothrombin ?  
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(c) What is the role of thrombin in the formation of fibrin fibres ?  
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(d) Write the role of RBCs and platelets in the formation of blood clot ?  
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(e) Write any two advantages of blood clotting in the wounds ?  
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### 02 Complete the flow chart of clotting of blood by filling the letters a – d :





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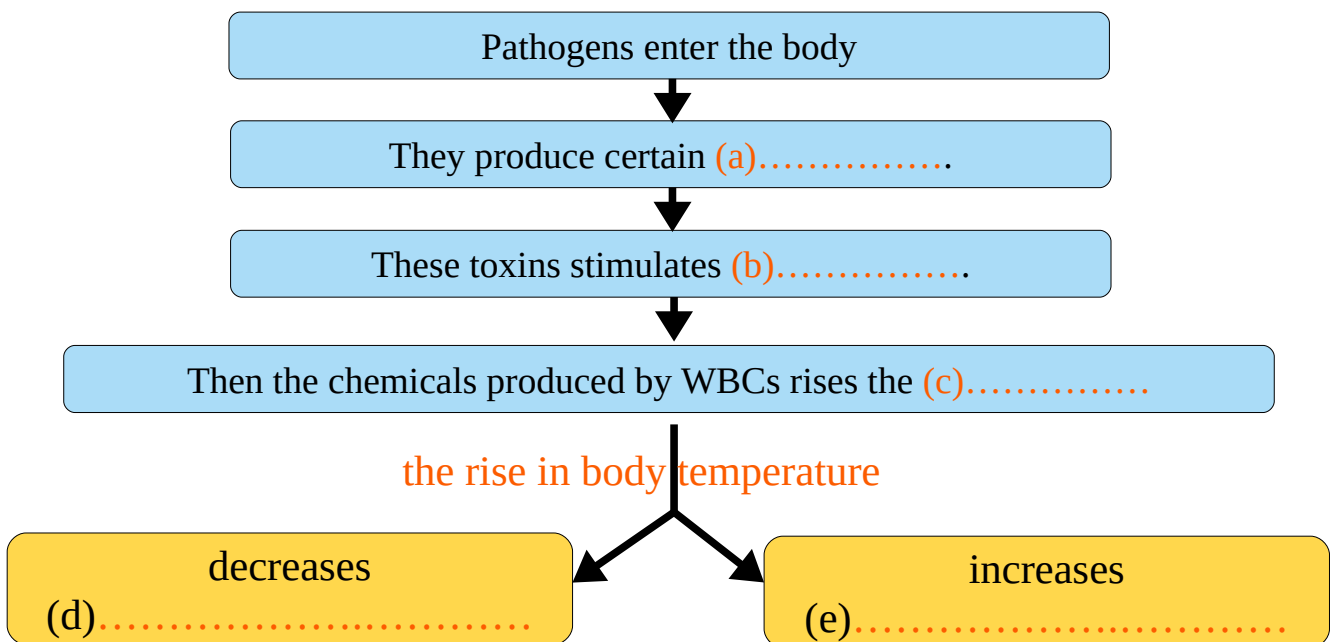
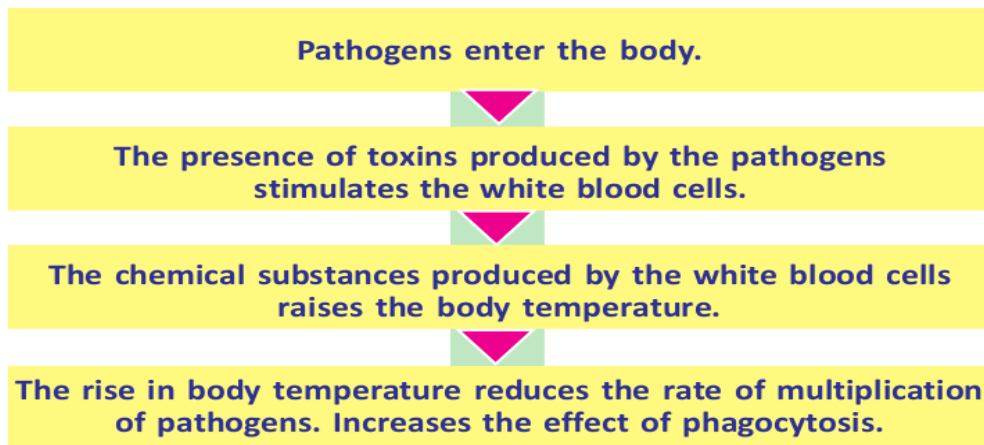


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### 03 Answer the following questions :

- (a) Name the process taking place in a wound site after inflammatory response and blood clotting ?  
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- (b) In certain situations new tissues cannot be formed in the wound site instead of damaged tissues. In such cases how do the wounds are healed ?  
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- (c) Write a situation that may slow down the process of wound healing ?  
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### 04 Complete the flow chart by analysing the Illustration:





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## 05 Analyse the note and answer the question :



When infection becomes uncontrollable, the body temperature may rise tremendously. We take medicines to reduce the body temperature. But it is advisable to treat after diagnosing the exact reason. If the rise in body temperature persists for a long time, it may badly affect the internal organs including the brain. Hence, if fever increases, it is necessary to seek medical assistance immediately.

- (a) *Even though fever is a defense mechanism of the body, we should seek medical assistance immediately during high fever. Explain the reason ?*

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- 06 *Inflammatory response, phagocytosis, fever, etc. are considered as Non-specific defense mechanism, Give reason ?*

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Blood Clotting



Fever