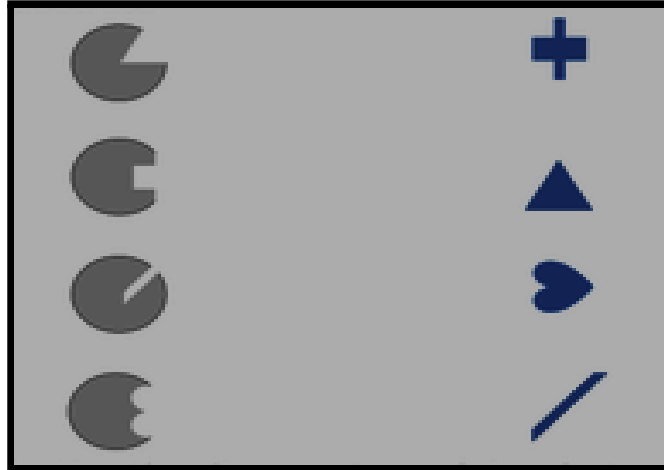


SANGAM S K M COLLEGE-NADI

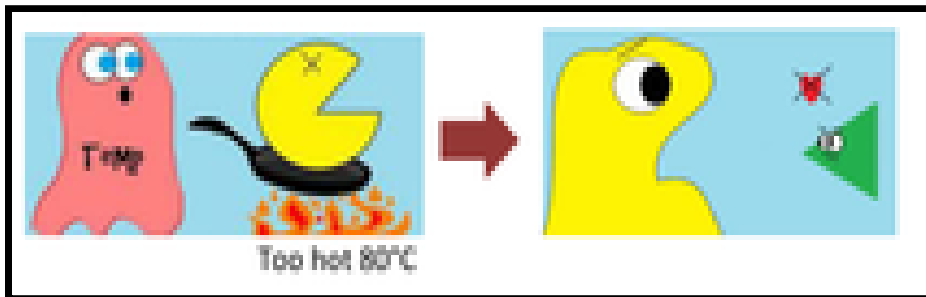
YEAR 12 BIOLOGY WORKSHEET

WEEK 4

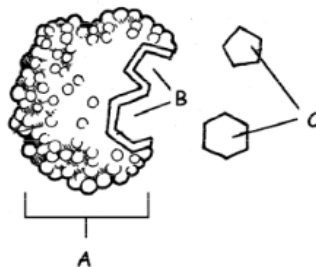
1) Match the enzyme with the correct substrate.



2) Use the diagram to explain what happens to enzymes at high temperature? What is it called?



3) Study the diagram given below



- (i) Which **letter** represent the enzyme?
- (ii) What are inhibitors?
- (iii) Explain the “**Lock & Key**” model of enzyme actions.

4) Crossword puzzle- photosynthesis- light/dark reaction.

Across

- 4. Where does Photosynthesis occur?
- 6. Where do Light Dependent Reactions occur?
- 7. What is another name for Light Independent Reactions?
- 9. What is an input of Light Dependent Reactions?
- 10. What is an input of Light Independent Reactions?

Down

- 1. What is a byproduct of Light Independent Reactions?
- 2. In the Light Dependent Reaction, where does the light hit to create a reaction?
- 3. Where do Light Independent Reactions occur?
- 5. What is a byproduct of Light Dependent Reactions?
- 8. What is an energy-rich compound that is an output of Light Dependent Reactions?

Word Bank

- | | | | |
|--------|--------------|--------------------|----------------|
| Water | Calvin Cycle | Stroma | ATP |
| Oxygen | Chloroplast | Thylakoid Membrane | Carbon Dioxide |
| Sugar | Thylakoid | | |

