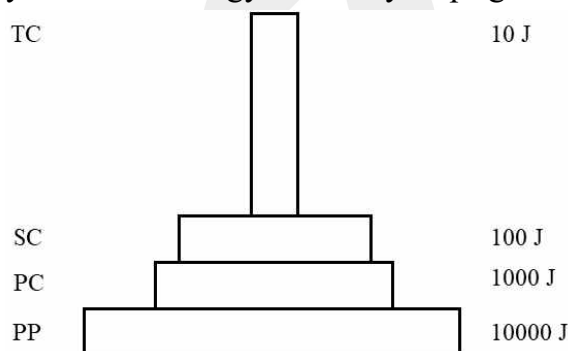


GOLDEN SAMPLE QUESTIONS

BIOLOGY For CBSE 2019 (Set 1)

1. Mention the function of coleorhiza.
2. State the significance of the study of fossils in evolution.
3. Why the pyramid of energy is always upright? Explain.



4. Explain the role(s) of the following in biotechnology.
 - (i) Restriction endonuclease
 - (ii) Gel-electrophoresis
 - (iii) Selectable markers in pBR322
5. Study the schematic representation of the genes involved in the lac operon given below and answer the question that follow.

p	i	p	o	z	y	a
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- (i) Identify and name the regulatory gene in this operon. Explain its role in 'switching off' the operon.
- (ii) Why is *lac* operon's regulation referred to as negative regulation?
- (iii) Name the inducer molecule and the products of the genes *z* and *y* of the operon. Write the function of these gene products.



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