



ST. XAVIER'S SENIOR SECONDARY SCHOOL, JAIPUR

Half Yearly (SA-1) Examination : 2015-2016

24-9-2015	Std. VII	Science	Time : 2 hrs.	Marks : 60
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- Instructions : (1) Draw diagrams and cite examples wherever necessary.
(2) Leave 2 line space after each complete question.

I. Define the following terms : (1×5=5)

- (i) Plaque (ii) Peristalsis
(iii) Autotrophs (iv) Organic acids
(v) Percolation rate

II. Fill in the blanks : (1×5=5)

- (i) Hydra catches its food with the help of
(ii) The colour of Zine Oxide on heating changes to
(iii) tissue in plants conducts food.
(iv) Soil is best suited for paddy.
(v) is an example of Insectivorous plants.

III. Compare :- (give 2 points for each.) (2×4=8)

- (i) Physical change with chemical change.
(ii) Land breeze with Sea breeze.
(iii) Loamy soil with clayey soil.
(iv) Acids with Bases.

IV. Answer in 4-5 lines. (2×2=12)

- (i) Define ionisation? Name the cation and anion formed in NaCl.
(ii) What is soil erosion? How can we prevent soil erosion? Suggest two methods.
(iii) Explain what is rusting? Why do we consider it as a chemical change?
(iv) Why is an old quilt not as warm as a new quilt? Give reason.
(v) Why are the new world monkeys well adapted to the tropical rain forests?
(vi) Explain the symbiotic relationship in Lichens.

V. Answer in 6-8 lines : (4×5=20)

- (i) What are the factors on which the climate of a place depends?
(ii) Explain the crushing can experiment with a diagram.
(iii) What is Neutralization reaction? Explain giving one equation and two applications in our daily life.
(iv) Mention the type of Reaction :-
(a) $\text{CuCO}_3 \rightarrow \text{CuO} + \text{CO}_2$
(b) $\text{S} + \text{O}_2 \rightarrow \text{SO}_2$
(c) $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$
(d) $\text{BaCl}_2 + \text{Na}_2\text{SO}_4 \rightarrow \text{BaSO}_4 + \text{NaCl}$
(v) Draw a well labelled diagram of the soil profile showing the horizons.

VI. Explain in details :- (8-10 lines) (5×2=10)

- (a) What are the adaptations of a Polar bear to survive in the polar region?
(b) What precautions one should take during a cyclone?
