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AFBBS

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SA-I (2016-2017)

BB

CLASS VIII

SUBJECT : GENERAL SCIENCE

Time : 3 Hours

M.M. : 90

General Instructions:

- (i) Be neat.
- (ii) Draw neat and labelled diagram wherever required.
- (iii) All questions are compulsory.

Q1. Complete the following statements—

- (a) _____ is a metal.
- (b) _____ is used in heavy vehicles (as a fuel).
- (c) Malleability is defined as _____.
- (d) _____ is a non exhaustible resource of energy.
- (e) Red Data Book keeps a record of _____.
- (f) _____ is an endangered species of animal. (6)

Q2. State whether the following statements are true or false—

- (a) Viviparous animals give birth to their young ones.
- (b) Use of LPG as a fuel doesn't cause air pollution.
- (c) Fire produced by wood cannot be controlled by water.
- (d) Hydrogen is not a fossil fuel.
- (e) Coke is almost a pure form of Carbon.

Q2. A tadpole develops into an adult frog by the process of metamorphosis. (6)

Q3. Match the columns—

Column A	Column B
1. Mercury	a. fuel
2. Carbon	b. electric wire
3. Aluminium	c. wrapping food
4. Iron	d. machinery
5. Copper	f. thermometer (5)

Q4. Write 'one word' answer to each of the following—

a. Resources which are present in unlimited quantity in nature and are not likely to be exhausted by human activities.

b. A petroleum product used in place of coal tar for metalling the roads.

c. The lowest temperature at which a substance catches fire is called its _____.

d. Restocking of destroyed forest by planting new trees.

e. Organisms that are made of more than one cell.

f. It is a unit of inheritance in living organisms which help in transfer of characters from parents to the offspring.

g. Name of the male gametes produced by testis. (7)

Q5. List two difference for each of the following— (Do it column wise)

- (i) Sexual and asexual reproduction.
- (ii) Metal and non metals.
- (iii) Internal and external fertilization.
- (iv) Flora and fauna.
- (v) Rapid combustion and spontaneous combustion.
- (vi) Good conductors and bad conductors of heat. (12)

Q6. Write short answers to each of the following—

- (i) Define refining. What is a petroleum refinery?
- (ii) Define calorific value of a fuel. What is its unit?
- (iii) What will happen if the habitat of an animal is disturbed?
- (iv) Where are chromosomes found in cell? State their function.
- (v) Define 'Metamorphosis'. Name an organism which undergoes it.
- (vi) What is the role of bacteria in increasing the soil fertility? Name the bacteria.
- (vii) What are antibiotics? Give one example.
- (viii) Mention two important properties of Nylon.
- (ix) Write the equation for each—
 - (a) Burning of Magnesium.
 - (b) Zinc reacting with Copper Sulphate. (2×9=18)

Q7. Answer the following -

1. Draw neat and labeled diagram of each of the following—
 - (a) Petroleum and natural gas deposits.
 - (b) Different zones of candle flame.
 - (c) Plant cell.
 - (d) Animal cell.
 - (e) Female reproductive organs in humans.
2. What are Rabi Crops? Give two examples.
3. List three differences between fertilizer and manure. (column wise) (3x7=21)

Q8. Explain in details— (any three)

- (a) (i) Define: threshing, harvesting, weeding
(ii) Why is 'weeding' necessary? Mention 2 points.
- (b) I. List two diseases (human) caused by
 - (i) Virus
 - (ii) ProtozoaII. Name a plant disease caused by micro organism.
- (c) (I) Explain Nitrogen Cycle in nature.
(II) Define Nitrogen fixation.
- (d) List three important differences between thermoplastic and thermosetting plastic. (5x3=15)