



ST. LAWRENCE HIGH SCHOOL
A JESUIT CHRISTIAN MINORITY INSTITUTION



Second Term Examination – 2018

Sub : General Science
Duration: 2hrs 30 Min.

Class: 6

FM: 90

Date: 03.08.2018

Section-A(25marks)

A. Choose the correct option: (1x5=5)

- In which of the following process is light absorbed?
(a) Burning (b) photosynthesis (c) sublimation (d) rusting
- On being burnt, wood produces _____.
(a) only carbon dioxide (b) none of these gases
(c) a mixture of carbon dioxide and water vapour (d) only water vapour
- The organisms whose fore limbs are modified in to wings- _____.
(a) Mammalia (b) Amphibia (c) Pisces (d) Aves
- Small plants with soft stems are called _____.
(a) shrubs (b) trees (c) herbs (d) plants
- Area of a sphere with radius 'r' _____.
(a) a^3 (b) lbh (c) $\frac{4}{3} \pi r^3$ (d) $\pi r^2 h$

B. State whether the following statement is true or false: (1x5=5)

- The Fahrenheit scale is named after the German scientist Anders Celsius.
- Area of a circle is $\pi r^2 h$.
- Heat is absorbed when glucose is dissolved in water.
- Natural gas is obtained from petroleum wells.
- Plasmodium* causes malaria.

C. Fill in the blanks: (1x5=5)

- _____ are called 'amphibians of the plant kingdom'.
- To measure the volume of an irregular solid which dissolves in water, we use _____ instead of water.
- The closeness of an estimated measurement to its true value is called _____.
- The smaller the area over which the force acts, the _____ is the effect of the force.
- The process of circulation of oxygen among the various components of the environment is called _____.

D. Answer in one word: (1x5=5)

- The reaction in which the heat is released.
- Name the phylum under which the organisms have soft bodies covered by a hard shell.
- Name the round, brown structures which are found in the leaflets of the ferns.
- A quantity that can be measured.
- A liquid commonly used in laboratory thermometers.

E. Match the columns: (1x5=5)

COLUMN A	COLUMN B
1. Gymnosperms	a) Heat is evolved
2. Hydrochloric acid to water	b) True flowers
3. CNG	c) Naked seeds
4. Tortoises	d) Lesser the effect of pressure
5. Angiosperms	e) Methane
	f) Reptiles

Section-B(25 marks)

F. Answer the following questions: (2x5=10)

1. Define periodic changes.
2. What is global warming?
3. Find the area of a triangle whose base is 6 cm and height is 8 cm.
4. What is the SI unit of time? How is it related to a mean solar day?
5. Define pressure and give its SI unit.

G. Answer the following questions:(attempt any 5 out of 7) (3x5=15)

1. What do you understand by 'cold-blooded'? Give one example.(2+1)
2. How are plants classified on the basis of their life cycle?(3)
3. Define desirable and undesirable changes with one example each.(1^{1/2}+1^{1/2})
4. Name the 2 gases which do not pollute the air. What is a fuel?(2+1)
5. The length, breadth and height of a box are 12 m, 4 m and 8 m, respectively. Find the volume of the box.(3)
6. Give the relation between Celsius and Fahrenheit scales.(3)
7. List out the three factors on which the effect of force on a surface is based on.(3)

Section-C(40 marks)

H. Long answer type questions: (attempt any 8 out of 10)(5x8=40)

1. Name the five conditions that help evaporation.(5)
2. Write a note on photosynthesis.(5)
3. Give any 5 characteristics of the Phylum Mammalia.(5)
4. How are plants classified on the basis of their habitat? What are parasites and saprophytes?(3+2)
5. List out the 5 rules to write the SI units correctly.(5)
6. Write the differences between the clinical and the laboratory thermometer.(5)
7. A solid body weighing 25 N is placed on a table top. The area of contact is 50 cm². Find the pressure exerted by the solid on the table top. (5)
8. Give any 5 examples of chemical change.(5)
9. Write the experiment that shows that rusting takes place in moist air.(5)
10. Write a note on Fungi.(5)



FOR GOD AND COUNTRY

Sejaini Chakraborty
06.08.18

(BELINE JERRY P)
6/8/18



ST.LAWRENCE HIGH SCHOOL
2ND TERM EXAMINATION-2018
CLASS-VI

SUBJECT: GENERALSCIENCE
DURATION: 2HRS 30MINS

F.M: 90
DATE: 2.8.2018

Section-A (25marks)

A. Choose the correct option: (1x5=5)

1. Photosynthesis 2. A mixture of carbon dioxide and water vapour 3. Aves
4. herbs 5. $\frac{4}{3} \pi r^3$

B. State whether the following statement is true or false: (1x5=5)

1. False 2. False 3. True 4. True 5. True

C. Fill in the blanks: (1x5=5)

1. Bryophytes 2. Kerosene 3. Approximation 4. Greater 5. Oxygen cycle

D. Answer in one word: (1x5=5)

1. Exothermic reaction 2. Mollusca 3. Sori /sorus 4. Physical quantity
5. Mercury

E. Match the columns: (1x5=5)

COLUMN A	COLUMN B
1. Gymnosperms	Naked seeds
2. Hydrochloric acid to water	Heat is evolved
3. CNG	Methane
4. Tortoises	Reptiles
5. Angiosperms	True flowers

Section-B (25 marks)

F. Answer the following questions: (2x5=10)

1. Periodic changes are those which take place at fixed intervals of time.
2. The general increase in the earth's average temperature caused by the presence of greenhouse gases

in the atmosphere, which causes changes in climate patterns across the globe. This is called Global warming.

3. Area of a triangle = $\frac{1}{2}bh = \frac{1}{2} \times 6 \times 8 = 24 \text{ cm}^2$
4. SI unit of time is second. 1 mean solar day = 24 hours = $24 \times 3600 \text{ s} = 86400 \text{ s}$.
5. Pressure is the force acting on a unit area of a surface. SI unit of Pressure is N/m^2 or Pa.

G. Answer the following questions:(attempt any 5 out of 7) (3x5=15)

1. The animals which are capable of changing their body temperature according to the temperature of the surroundings are called cold-blooded animals.
2. Annuals, Biennials and Perennials.
3. The changes which are useful to us are called desirable changes. Eg. Digestion of food.
The changes that are harmful are called undesirable changes. Eg. Spoiling of food.
4. CNG and LPG. A substance that is burnt with a view to obtaining heat from it is called a fuel.
5. Volume of the box = $lbh = 12 \times 4 \times 8 = 384 \text{ m}^3$.
6. $C/100 = F-32/180$.
7. The magnitude of force acting on the surface.
The direction in which the force is applied on the surface.
The area of surface over which the force is applied.

Section-C (40 marks)

H. Long answer type questions: (attempt any 8 out of 10) (5x8=40)

1. The conditions that helps evaporation :
A high temperature, A low pressure, A low humidity, A large surface area, Draught.
2. Plants make food using the carbon dioxide of air and the moisture of soil in the presence of sunlight.
A green substance, called chlorophyll, traps the energy from sunlight and makes it available for making food. In this process, glucose is formed and oxygen is liberated. Photosynthesis takes place only in the presence of sunlight. Plants store food in the form of starch and some other substances.
3. Warm-blooded animals that give birth to their babies. They suckle their babies. They have hair on their body. They have external ears and nose. They breathe through their lungs.

4. Hydrophytes, mesophytes and xerophytes. An organism which lives in or on another organism (its host) and benefits by deriving nutrients at the other's expense. A plant, fungus, or microorganism that lives on dead or decaying organic matter.
5. Names of the units are written in lower case. Units named after scientists are written in lower case. Symbols for the units are always written in lower case. Symbols are not followed by a full stop. Symbols are never written in plural.
- 6.

Clinical thermometer	Laboratory thermometer
1. Used by the doctors	Used by the lab technicians
2. This thermometer has constriction	No constriction present
3. degrees ranges from -10 C to 110 C	Degrees ranges from 35 C to 42 C
4. To measure a person's body temperature.	To measure the room temperature or the temperatures of hot liquids and solids in a lab.

7. Thrust(F) = 25 N, area (A) = 50 cm² = 50 / 10000 m² = 1/200 m²
 Pressure = F/A = 25 / (1/200) = 25 x 200 = 5000 Pa.
8. Burning of wood, curdling of milk, digestion of food, rusting, photosynthesis.
9. Take the three test tubes and label them A, B and C and a few unrusted, small iron nails of similar size. Put a few nails in the test tube A, pour some tap water into it and place it in a test tube stand. Boil some distilled water in test tube B to remove the dissolved air. Put some nails into the air-free water and pour oil over the water. The oil will not allow the water to come in contact with air. Cork the test tube and place it in the stand, by the side of A. Place some solid anhydrous calcium chloride in test tube C, put a few nails in the test tube, and cork it. Anhydrous calcium chloride has the ability to absorb all the moisture within a closed space. Thus the air in test tube C does not contain any moisture.
- Examine the nails after a few days. You will find that only the nails in test tube A have rusted but not those in the others. This is because test tube A has both air and moisture in it. Iron does not rust in moisture without air or in air without moisture.

10. Fungi are unicellular, form a network of thread-like structures, while some are fleshy or hard. They lack chlorophyll. They are heterotrophic which includes saprophytes and parasites. They reproduce through spores.
