



ST. XAVIER'S SENIOR SECONDARY SCHOOL, DELHI - 110 054
Annual Examination in **SCIENCE**

Std. 8
17-2-2018

Time : 3 hrs.
Max. Marks : 80

1. Explain the terms given below: (1 x 5 = 5 marks)
 - a) Celestial object
 - b) metamorphosis
 - c) Fault zones
 - d) Earthing
 - e) Zygote

2. State the difference between: (1 x 5 = 5 marks)
 - a) Oviparous & viviparous animal
 - b) Exhaustible & inexhaustible resources
 - c) Internal & external fertilization
 - d) Sexual & asexual reproduction
 - e) Thermosetting & thermoplastic

3. Fill in the blanks: (1 x 6 = 6 marks)
 - a) Large scale storage of grains is done in _____.
 - b) A machine called _____ is a combined harvester and thresher.
 - c) A spherical body in the nucleus is called _____.
 - d) CNG stands for _____.
 - e) PCRA stands for _____.
 - f) Cells were first observed by _____ in the cork.

4. Define the following: (1 x 6 = 6 marks)
 - a) Animal husbandry
 - b) Refining of petroleum
 - c) Light year
 - d) Earthquake
 - e) Foetus
 - f) Pressure

5. Short answer questions: (1 x 6 = 6 marks)
 - a) Why are synthetic fibres more popular than natural fibres? (state any 2 reasons)
 - b) What type of fires cannot be controlled by water & why?
 - c) State the function of uterus.
 - d) Explain how is the sex of a baby determined.
 - e) Why does a bulb glow when an electric current passes through it?
 - f) Draw a well labelled diagram of a human sperm.

6. Name the following: (1 x 6 = 6 marks)
 - a) Red planet
 - b) The Hunter constellation
 - c) The constellation which looks like a W or M
 - d) The basic structural unit of a living organism
 - e) Type of combustion in which a material suddenly bursts into flames
 - f) The constellation called great bear

7. Explain the following terms in detail: (2 x 2 = 4 marks)
 - a) Menarche & menopause
 - b) Unicellular & multicellular organism

8. Give one word for the following: (2 x 5 = 10 marks)
- a) Hormone which controls secondary sexual characters in
 - i) males
 - ii) females
 - b) Characteristic of sound which determines its
 - i) pitch or shrillness
 - ii) loudness
 - c) Gas evolved at
 - i) cathode
 - ii) anode when electric current passes through water
 - d) Constituent of petroleum used for
 - i) Road surfacing
 - ii) Jet aircraft
 - e)
 - i) Plastic used for nonstick coating on cookwares
 - ii) Hormone that controls blood sugar
9. Answer in detail: (2 x 5 = 10 marks)
- a) Explain the modern method of irrigation used in the region where water availability is poor.
 - b) What is a mixed fibre? Give an example and also state the fibres it is made up of.
 - c) Define ignition temperature. Explain why does a paper cup filled with water not burn when heat is supplied to it?
 - d) State the mode of reproduction in amoeba with the help of a diagram.
 - e) Why do porters place a round piece of cloth on their heads to carry loads?
10. What is lightning conductor? How it works? (2)
11. Long answer questions: (4 x 5 = 20 marks)
- a)
 - i) Give an example of contact and non contact force.
 - ii) Define electroplating. Chromium is an expensive metal yet it is electroplated on many objects. Why? (give any 2 reasons)
 - b)
 - i) The calorific value of a fuel is 80000 KJ/Kg. How much heat is produced by 4.8kg of this fuel?
 - ii) Draw a well labeled diagram of a candle flame showing the three different zones.
 - c)
 - i) Does pure water conduct electricity? Why or why not? What can you do to make it conducting?
 - ii) Write an activity to show that sound can travel through water.
 - d)
 - i) A pendulum oscillates 20 times in 2 seconds. Calculate its time-period and frequency.
 - ii) Define noise pollution. State any two harms caused by it.