



# All India Mahila Sangh

## अखिल भारतीय महिला संघ

Registered Under Societies Registration Act 27 of 1975 Govt of Tamilnadu  
Recognised by Women's Empowerment Act



### Main Examination (Academic-2020 Session)

#### X-Standard – SCIENCE

Question Code: AC20SCI204

Subject Code: 204

Time: 2 Hours

Maximum Marks: 100

**Answer any 10 Questions :**

**10 \* 10 = 100**

- 1) What are the differences between Mass and weight?
- 2)
  - i) Distinguish between atom and molecules
  - ii) Find the gram molecular mass of Carbon<sub>di</sub>oxide [ where gram atomic Mass of (Carbon – 12g, Oxygen – 16 g)]
- 3) State any two uses of Concave lenses. A Concave lens has focal length of 15cm. At what distance should the object be placed to that it forms an image at 10cm from the lens.
- 4) What is Green Chemistry? What is global Village?
- 5) Write the uses of Bio-sensor and Bio-Chips
- 6) Explain Mendel's Monohybrid Cross Experiment.
- 7) Draw the structure of Nerve Cell and Label its parts.
- 8)
  - a) What is an electric Motor.
  - b) What is principle used in an electric motor?
  - c) List the factors that enhance power of commercial motor.
- 9)
  - i) Write down any three postulates of modern atomic theory.
  - ii) Write any two Applications of Avogadro's Law

- 10) Draw and explain the refraction of light through a prism.
- 11) Explain Newton's first law of motion with a suitable diagram.
- 12) Kala has delivered a baby.
  - a) Suggest the immunization schedule for the baby in the first six months.
  - b) What are the diseases that can be cured as per schedule?
  - 3) How to prevent Tuberculosis?