

HAVE CONTROL → HAVE PATIENCE → HAVE CONFIDENCE ⇒ 100% SUCCESS

PHYSICS
MARKS : 10
2 Questions carry 2 marks each

- 1 Write the difference between principle and law ?
- 2 What is physics ? Who is a physicist ?

2 Questions carry 3 marks each

- 3 Write the name of major subfields of physics?
- 4 Explain the different steps involved in scientific method

CHEMISTRY
MARKS : 10
2 Questions carry 2 marks each

- 5
 - i. Define chemistry ?
 - ii. Write the discovery/theory given by Robert Boyle
- 6 Explain the following:
 - i. What is science.
 - ii. Life science

2 Questions carry 3 marks each

- 7 Write about any three branches of chemistry & explain ?
- 8 Write the uses of chemistry in:
 - i. Agriculture
 - ii. Clothing

BIOLOGY
MARKS : 10
2 Questions carry 2 marks each

- 9 What is the one point of difference between tap roots and fibrous roots?
- 10 Write function of
 - i. Root cap
 - ii. Root hair

2 Questions carry 3 marks each

- 11 Give three characteristics of roots.
- 12 What are the three major functions of roots?

MATHEMATICS
MARKS : 20
3 Questions carry 2 marks each

- 13 Arrange in ascending order:
 $-11, -16, -3, 9, -16$
- 14 Write the expanded form:
 - i. 84321
 - ii. 723251
- 15 Make the greatest and smallest 4-digit number using the digits 8, 3, 0, 1 only once.

3 Questions carry 3 marks each

- 16 Solve:
 - i. $(-4) \times (6) \times (-5)$
 - ii. Subtract 458 from -391
- 17 Insert commas in the following numerals according to Indian and international system:
 - i. 814213416
 - ii. 92813241
- 18 Simplify:
 - i. $42 \div [(-19) + (-6)(-2)]$
 - ii. $36 \div (-9)$

1 Question carry 5 marks

- 19 Estimate each of the following ?
 - i. $77 + 17 =$, rounding off to nearest tens.
 - ii. 981×428 , rounding off to the nearest hundred.

