Board Practice Test Std.XII
Syllabus (2015 – 16)

PHYSICS

BPT-1
Current Electricity, Magnetic Effect of electric current,
Electrons & photons,
Semiconductors, Communication, Wave theory of light,
Interference and
diffraction, Magnetism.

BPT-2
Electrostatics, Electromagnetic Induction, Atoms,
Molecules and nuclei.

BPT-3
Circular Motion, Gravitation, Rotational Motion,
Oscillations, Elasticity,
Surface Tension, Wave Motion, Stationary Waves,
Kinetic theory of gases
and Radiation.

Mathematics

BPT-1
Maths I-Mathematical Logic, Matrices, Trigonometric
function, Linear
Programming.
Maths II- Continuity, Differentiation, Applications of
Derivatives

BPT-2
Maths I – Pair of straight lines.
Maths II – Integration, Definite Integral, Applications of
Definite Integral,
Differential Equations

BPT-3
Maths I – Vectors, Three Dimensional Geometry, Line,
Plane
Maths II – Probability Distribution, Binomial
Distribution.
EM/CS

BPT-1

**E.M.** - Electrical Symbols, Circuit diagram and panel diagram, Fuses, Conductors, Gauge of a conductor, Insulators, Semiconductors and high resistance heating elements, Types of wires and wiring accessories, Wiring system, House wiring, Indian electricity rules and over head lines.

**C.S. I** - C++

**C.S. II** - Networking Technology

BPT-2

**E.M.** - Underground cables, Illumination, Electrical Appliances, Electric heating, Parallel operation of 3-phase alternators, Theory of rotating magnetic field and 3- Induction motor, H.V. Substation, Maintenance

**C.S. I** - Operating System

**C.S. II** - Instruction Set and Programming of 8085

BPT-3

**E.M.** - Transformers, Single phase motors, Theory of rotating magnetic field and 3- Induction motor, Synchronous motor, Measuring Instruments.

**C.S. I** - Data Structures, HTML

**C.S. II** - Introduction to 8085 Microprocessor (Theory), Introduction to 8051 microcontroller and X-86 family.
Chemistry

**BPT-1**
Chemical Thermodynamics, Solid State Chemistry, P-block element, Co-ordination compounds, Polymers.

**BPT-2**
Halogen derivative of alkanes and haloarenes, alcohols, phenols, ethers, aldehydes, ketones, carboxylic acid, compound containing nitrogen, Biomolecules, general principle and isolation of elements and metallurgy.

**BPT-3**
Solutions & Colligative properties, Chemical Kinetics, Electrochemistry, d & f block elements, Chemistry in everyday life.

English

**BPT-1**
Q.1(A) Unit – 1- 4, Q.1(B) Unseen grammar, Q.2(A) Unit – 5 - 8, Q.2 (B)
Summary, Q.3(A) Unseen Passage, (41 marks)

**BPT-2**
Q.4(B) Note Making, Q.4(A) Poems – 1-4, Q.4(B) Poems – 5-8, Q.5(A)
Rapid Reading(Rewrite from the point of view of character), Q.5(B)
Composition(Extend / Add a paragraph or convert in to Dialogue or Cautious write up), Q.6(A) Letters (Formal or semi formal), Q.6(B)
Tourist leaflet / Appeal or Report writing / Dev. News Item or Dialogue writing, Q.6(C) Information Transfer or View / counterview (24 marks)

**BPT-3**
Q.6 (B)(C) : (20-25 mins. must be kept in hand for revising, completing any incomplete question, grammar and underlining etc., Q.7(A)
Framing Interview Questions, Q.7(B) : Speech (15 marks)
PSYCHOLOGY

BPT-1
Chapter 1:- Intelligence.
2:-Personality.
3:- Stress Management.
4:- Psychological Disorders & Therapies.

BPT-2
Chapter 5:- Attitude
6:- Social Influence
7:- Psychology & life
8:- Developing Psychological skills.

BIOLOGY

BPT-1 (BOTANY)
1. Genetic Basis of Inheritance.
4. Enhancement in food production.
5. Microbes in Human welfare.

BPT-2 (BOTANY)
1. Photosynthesis
2. Respiration
3. Reproduction in plants
4. Organisms and Environment I

BPT-3 (ZOOLOGY)
2. Chromosomal basis of Inheritance.
3. Genetic Engineering and Genomics.
4. Human health and diseases.
5. Animal Husbandary

BPT-4 (ZOOLOGY)
1. Circulation
2. Excretion and osmoregulation
3. Control and co-ordination
4. Human Reproduction
5. Organisms and Environment II