Physics Portions for First Term Examination – Jan, 2022

Year 9 – Year 13

Year 9

SP3 Conservation of energy **(3a, 3b, 3c. 3d, 3e, 3f)**

SP4 Waves **(4a, 4b, 4c, 4d, 4e, 4f, 4g)**

SP 5a Ray Diagrams **(5a only-Pg 66)**

Year 10

SP1 Motion **(1a, 1b, 1c, 1d)**

SP2 Motion and Forces **(2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i)**

SP3 Conservation of energy **(3a, 3b, 3c. 3d, 3e, 3f)**

SP4 Waves **(4a, 4b, 4c, 4d, 4e, 4f, 4g)**

SP 5 Light and electromagnetic Spectrum **(5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h, 5i)**

SP 6 Radioactivity **(6a, 6b, 6c, 6d, 6e, 6f, 6g, 6h, 6i, 6j, 6k, 6l, 6m)**

Year 11

Paper 1

SP1 Motion **(1a, 1b, 1c, 1d)**

SP2 Motion and Forces **(2a, 2b, 2c, 2d, 2e, 2f, 2g, 2h, 2i)**

SP3 Conservation of energy **(3a, 3b, 3c, 3d, 3e, 3f)**

SP4 Waves **(4a, 4b, 4c, 4d, 4e, 4f, 4g)**

SP 5 Light and the electromagnetic Spectrum **(5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h, 5i)**

SP 6 Radioactivity **(6a, 6b, 6c, 6d, 6e, 6f, 6g, 6h, 6i, 6j, 6k, 6l, 6m)**

SP 7 Astronomy **(7a, 7b, 7c, 7d, 7e)**

Paper 2

SP 8 Energy-forces doing work **(8a)**

SP10 Electricity and circuits **(10a,10b,10c, 10d, 10 e, 10f, 10g, 10h, 10 i)**

SP11 Static Electricity **(11a, 11b, 11c)**

SP12 Magnetism and motor effect **(12a, 12b, 12c)**

SP13 Electromagnetic induction **(13a, 13b, 13c)**

SP14 Particle model **(14a, 14b, 14c, 14d, 14e)**

Year 12

Topic 1- Working as a Physicist

1- Units
2. Estimation

Topic 2- Mechanics

2.1 Motion

2.2 Energy

Topic 3 - Electric circuits

3.1 Electrical quantities

3.2 Complete Electrical circuits

Year 13

Paper 1

Topic 1 - Working as a Physicist

Topic 2 - Mechanics

Topic 3 - Electric circuits

Topic 4 - Materials

Topic 5 - Waves and particle nature of light

And concepts from relevant practicals will be included.

Paper 2

Topic 1- Working as a Physicist

Topic 6 Further Mechanics

Topic 7 Electric and Magnetic fields

Topic 8 Nuclear and particle physics

8.1 – Probing Matter

8.21 – Particle accelerators

Topic 10 – Nuclear Radiation

Topic 13 – Oscillations

13.1 – Simple harmonic motion (SHM)

13.2 – SHM mathematics

13.3 – SHM energy

And concepts from relevant practicals will be included.