

Physics

Single Correct Type

1 B

2 B

3 A

4 A

5 B

Multiple Answer Type

1 BC

2 AC

3 D

4 C

Fill in the blanks

1 Prisms

2 250N

3 Magnetic

4 0

5 0.267

Match the Following

A \rightarrow (q)

B \rightarrow (r) & (s)

C \rightarrow (r) & (s)

D \rightarrow (p), (q) & (r)

Subjective

1 Magnetic fields are non conservative

$$2 \frac{1}{f} = \left(\frac{U_2}{U_1} - 1 \right) \left(\frac{1}{R_1} - \frac{1}{R_2} \right)$$

The first term is negative as $u_2 < u_1$ (i.e. refractive index of water is greater than that of air)

3 Sudden peaks are due to presence of characteristic x-rays...continuous x-rays give smooth curve. On hitting the target, electrons in inner shell is lost and this vacancy is filled by an -e from upper level and thus characteristic x-rays are formed...