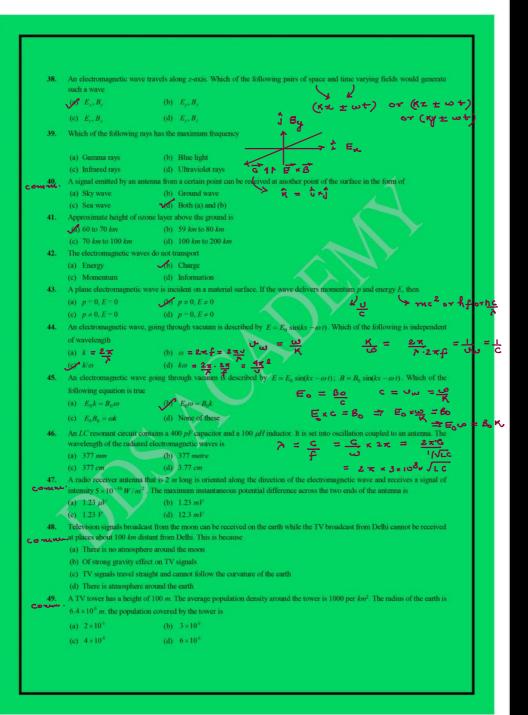
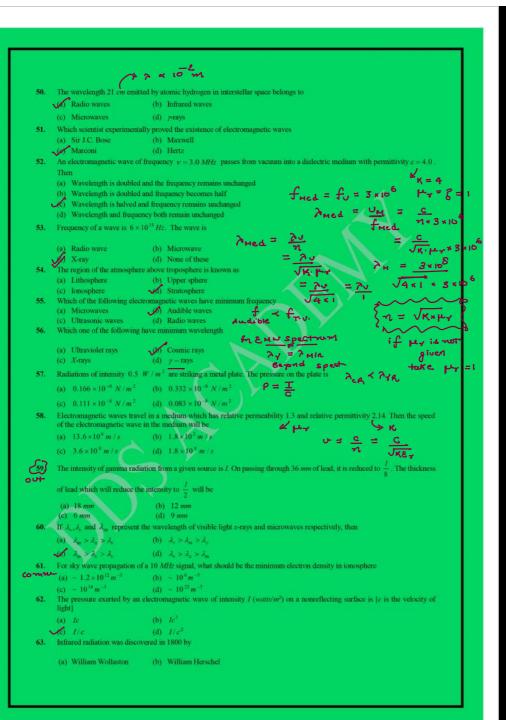


 $C_{g} = \frac{1}{2} \frac{6}{12}$   $C_{g} = \frac{1}{2} \frac{6}{12}$ 





- (c) Wilhelm Roentgen (d) Thomas Young Which of the following is electromagnetic wave

  A-rays and light waves
  (b) Cosmic rays and sound waves
  (c) Beta rays and sound waves
  (d) Alpha rays and sound waves
  Which one of the following is not electromagnetic in nature
- (b) Gamma rays
- (a) X-rays
  (c) Cathode rays
- (d) Infrared rays
- Light wave is travelling along y-direction. If the corresponding  $\vec{E}$  vector at any time is along the x-axis, the direction of  $\vec{B}$  vector at that time is along 10 - =: B

  - (a) y-axis
    (b) x-axis
    (c) +z-axis
    (d) -z axis

    If c is the speed of electromagnetic waves in vacuum, its speed in a medium of dielectric constant K and relative permeability



(b)  $v = c\sqrt{\mu_r K}$ 



$$v = \frac{K}{\sqrt{\mu_e C}}$$

## **ANSWER KEY**

1	a	2	d	3	b	4	d	5	b
6	b	7	a	8	d	9	С	10	a
11	a	12	С	13	a	14	b	15	b
16	d	17	b	18	d	19	а	20	С
21	a	22	d	23	С	24	b	25	a
26	a	27	С	28	С	29	а	30	b
31	С	32	a	33	d	34	a	35	d
36	С	37	b	38	а	39	а	40	d

