

Physics

PR – X (A-I-B4) (24)

۱۔ ہر سوال کے مطابق چار دائرے دیئے گئے ہیں۔ صرف صحیح جواب والا دائرہ بھریں۔

۲۔ دائروں کو شیڈ (بھرنے) کے لیے نیلے یا کالے رنگ کا پین استعمال کریں۔

۳۔ جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

Time: 15 Min

SECTION-A

Marks: 12

- 1) Time taken by oscillating object to complete one cycle is called:
 Frequency Time Period Amplitude Wavelength
- 2) When an object oscillate with a frequency of 0.5 Hz, its time period is:
 1s 2s 5s 10s
- 3) In compression, the density of medium, as compared to surrounding is:
 Higher Lower Same Zero
- 4) When a ray of light enters from water to air, it moves:
 Towards the normal Away from normal
 Along the normal Un deviated
- 5) The speed of light in typical oil having refractive index 1.5 is:
 $2 \times 10^8 \text{ m/s}$ $3 \times 10^8 \text{ m/s}$ $4.5 \times 10^8 \text{ m/s}$ $6 \times 10^8 \text{ m/s}$
- 6) When two capacitors of $15 \mu\text{F}$ and $20 \mu\text{F}$ are connected in series, the total capacitance is:
 $0.12 \mu\text{F}$ $8.5 \mu\text{F}$ $20 \mu\text{F}$ $35 \mu\text{F}$
- 7) Resistance of a metallic wire is "R", if the length of wire is halved, its resistance becomes;
 $R/2$ $2R$ $R/4$ $4R$
- 8) Induced emf in a coil can be increased by:
 Decreasing number of turns
 Increasing magnetic field
 Decreasing length of coil
 Increasing temperature of coil
- 9) The Boolean equation for NOR gate is:
 $X=AB$ $X=A+B$ $X=\overline{A+B}$ $X=\overline{AB}$
- 10) The applications and programming instructions that tell computer what to do are called:
 Software Hardware Procedure Information
- 11) The number of neutrons in a nucleus of ${}_{92}^{238}\text{U}$ is:
 92 146 238 585
- 12) Complete the equation: ${}_{44}^{210}\text{Po} \rightarrow {}_{82}^{206}\text{Pb} + \dots$
 α β^+ β^- γ