



Padalsalai's Telegram Groups!

(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- Padalsalai's NEWS - Group
https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA
- Padalsalai's Channel - Group
<https://t.me/padasalaichannel>
- Lesson Plan - Group
<https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw>
- 12th Standard - Group
https://t.me/Padalsalai_12th
- 11th Standard - Group
https://t.me/Padalsalai_11th
- 10th Standard - Group
https://t.me/Padalsalai_10th
- 9th Standard - Group
https://t.me/Padalsalai_9th
- 6th to 8th Standard - Group
https://t.me/Padalsalai_6to8
- 1st to 5th Standard - Group
https://t.me/Padalsalai_1to5
- TET - Group
https://t.me/Padalsalai_TET
- PGTRB - Group
https://t.me/Padalsalai_PGTRB
- TNPSC - Group
https://t.me/Padalsalai_TNPSC

Unit ⑥

XII - PHYSICS

Second Mid Term Model
Question Paper 2019Total
marks:-
35M

I Choose Correct Answer

5x1=5M

1) In a young's double-slit experiment, the slit separation is doubled. To maintain the same fringe spacing on the screen, the screen-to-slit distance D must be changed to ----

- a) $2D$ b) $\frac{D}{2}$ c) $\sqrt{2} D$ d) $\frac{D}{\sqrt{2}}$

2) First diffraction minimum due to a single slit of width $1.0 \times 10^{-5} \text{ cm}$ is at 30° . The wavelength of light used is ----

- a) $400 \text{ \AA}$ b) $500 \text{ \AA}$ c) $600 \text{ \AA}$ d) $700 \text{ \AA}$

3) Light transmitted by Nicol Prism is ----

- a) Partially Polarised b) Unpolarised
c) Plane Polarised d) Elliptically Polarised

4) Light transverse nature of light is shown in ----

- a) Interference b) Diffraction
c) Scattering d) Polarisation.

5) Four light incident from air on a slab of refractive index 2, the maximum possible angle of refraction is ----

- a) 30° b) 45° c) 90° d) 60°

II Answer any Three Question

6. state the laws of reflection?
7. what is relative refractive index?
8. What is Snell's window?
9. What is Power of a lens?
10. Why does sky appear blue?

SECTION-C

3x3=9M

III Answer any Three Question

11. What is wavefront?
12. what are coherent sources?
13. what is intensity division?
14. what is diffraction grating?
15. List the uses of Polaroids?

IV Answer all Question

SECTION-D

3x5=15M

16a) Prove laws of refraction using Huygens Principle?

(or)

b) Discuss about astronomical telescope?

17. a) Derive the Equation for thin lens and obtain its magnification.

(or)

b) Derive the Equation for effective focal length for lenses in out of Contact.

18. a) Discuss the experiment to determine the wavelength of monochromatic light using diffraction grating?

(or)

b) Discuss the experiment to determine the wavelength of different colours using diffraction grating.

All the best.

prepared by

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PHYSICS

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