

Question of Intermedyan

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B. sc. physics (Hons) Sem II

Core paper (3)

Answer any two ques.

2X5 = 10

- ① Obtain differential form of Gauss's Law.
- ② What is electrical polarisation and displacement vector. Find a relation between them.
- ③ State and prove Thevenin's theorem.
- ④ Discuss the boundary conditions at the interface of two media.

Question of Internal exam

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13th sc. Sem II Physics (Hon)
(2019-2022)

Core paper (C)

Answer any two questions $2 \times 5 = 10$

- ① What is Newton's formula for the determination of velocity of sound wave? Is it correct? Give Laplace Correction.
- ② Distinguish between phase velocity and group velocity.
- ③ Give the theory for the determination of wavelength of sodium light by Newton's ring method.
- ④ What is resolving power, Derive expression for resolving power of a telescope.

Questions for practical exam

Modimate

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13 sem sem II (2019-2022)

(10)

Answer any one

- ① Compare the Capacitances of two Capacitor using De Saury's Bridge
- ② Determine the wavelength of Sodium light using Fresnel's Biprism?
- ③ Determine the wave length of Sodium light by Newton's Ring Method
- ④ Determine the Self inductance of a coil using Anderson's Bridge.