

Sample Test Paper - II

Course Name : Civil Engineering Group

Course Code : CE/CS/CR/ CV

Semester : Second

Subject Title : Applied Science (Physics)

Marks : 25

17207

Time:1 Hour

Instructions:

1. All questions are compulsory.
2. Illustrate your answers with neat sketches wherever necessary.
3. Figures to the right indicate full marks.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.

Q.1) Answer any FOUR

08 Marks

- a. Define echo and reverberation.
- b. State Inverse square law.
- c. State Sabine's formula with symbol meaning.
- d. State any two properties of photon.
- e. State any two requirements of good acoustics.
- f. An X ray tube works on 40 kv. What will be the wavelength of X rays emitted in it.

Q.2) Answer any THREE

09 Marks

- a. Explain Planck's hypothesis.
- b. State any six applications of X rays.
- c. A concrete hall of volume 2000 m^3 has total absorption of 200. Find the reverberation time.
- d. Two sources of equal illumination power are placed at a distance of 1.8 m from one another. Where should a screen be placed between two sources so that the intensity of illumination on one of the surface be 4 times on the other.

Q.3) Answer any TWO

08 Marks

- a. State four factors affecting indoor lighting system and explain any two.
- b. Explain production of X rays using Coolidge's tube.
- c. The photo electric work function of certain metal is 3×10^{-19} joules. Calculate it's threshold frequency if Planck's constant is $6.625 \times 10^{-34} \text{ Js}$

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