

PHYSICS

BOOKS - MBD -HARYANA BOARD

Electromagnetic Waves

Example

1. How does the relation $c = \frac{1}{\sqrt{\mu_0 \epsilon_0}}$ indicate that the velocity of all types of e.m. waves in free space is the same?



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2. What is a plane polarised e.m. wave?



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3. Displacement current is due to time rate of change of electric flux in some part of electric current. (True/False)



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4. The direction of propagation of an e.m. wave is given by $\vec{E} \times \vec{B}$. (True/False)



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5. What are microwaves? Give their uses.



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6. Some scientists have predicted the global nuclear war on the earth would be followed by

a severe nuclear winter with a devastating effect on life on earth. What might be the basis of this prediction?



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7. Cloudy nights are warmer than the nights with clean sky. Explain.



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