



PHYSICS

BOOKS - PUNJAB BOARD PREVIOUS YEAR PAPERS

Electromagnetic Waves



1. Find the wavelengthof electromagnetic

waves of frequencies $4 imes 10^{17} Hz$ in free

space. Write its two applications.

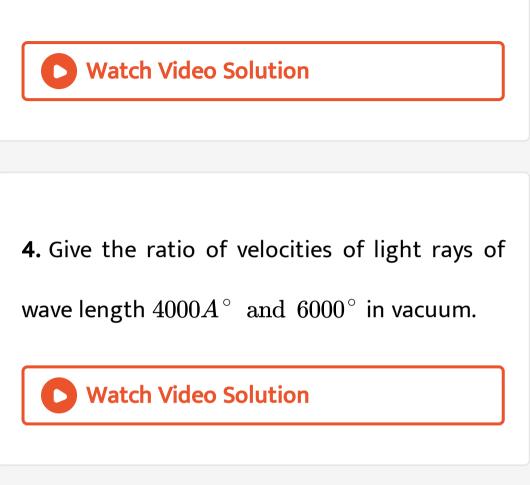


2. Find the wavelength of electromagnetic waves of frequency $5X10^{19}Hz$ in free space. Give its two applications

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3. Find the wavelength of electromagnetic waves of frequency $6 imes 10^{12}Hz$ in free space.

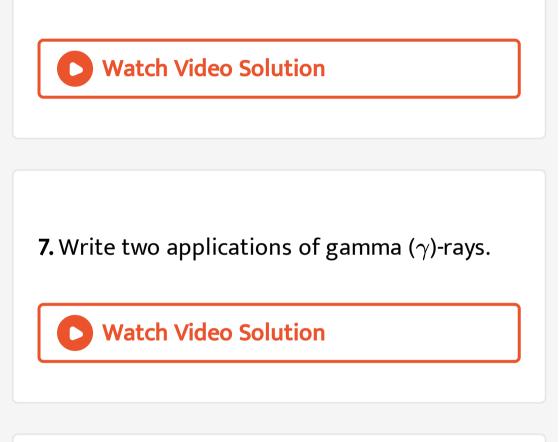
Give its two applications.



5. Write two applications of Infra-red waves.

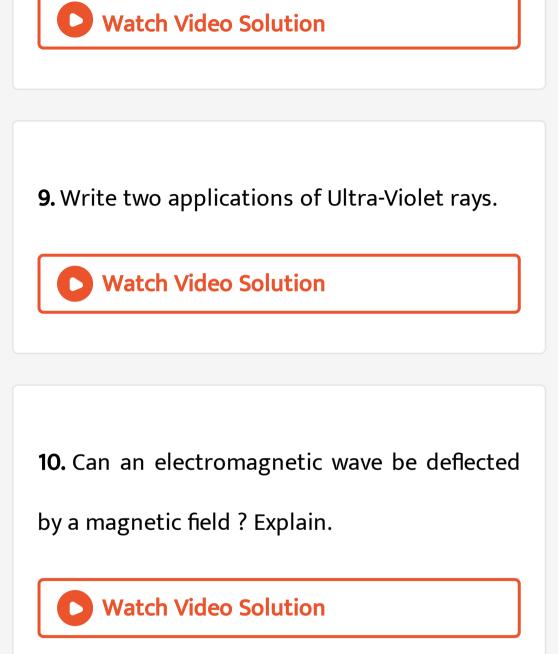
6. Can an electromagnetic wave be deflected

by a magnetic field ? Explain.



8. Can an electromagnetic wave be deflected

by an electric field explain?



11. Name the electromagnetic radiations used for viewing the objects or to take the photograph through haze and fog.



12. Which physical quantity if any has the same

value for waves belonging to the different

parts of the electromagnetic spectrum?



13. If the earth did not have atmosphere, would its average surface temperature be higher or lower than what it is now?

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14. Which of the following has shortest frequency-Microwaves, X-Rays, Ultraviolet rays?

15. Which of the following has shortest wavelength Radio waves, red light, Ultraviolet rays ?



16. arrange the following radiations in descending order of wavelength : Radiowaves,

X rays, UV rays, visible light

17. Write the following radiations in ascending order of wavelength microwaves, gamma rays, radio waves, uv light.

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18. Write the following radiations in an ascending order in respect of their frequencies : X-rays, microwaves, UV (ultraviolet) rays and radio waves.

19. Write the following radiations in a descending order of their frequencies: red light, X-rays, microwaves, radio-waves.



20. Arrange the following radiations in the descending order of wavelength: X-rays, radio

waves, yellow light, infra-red rays.



21. What do you mean by displacement current



22. Draw the shape of electromagnetic waves.



23. Are matter waves, electromagnetic ? Write

yes or no.





24.was the first scientist who produced

electromagnetic waves in a laboratory.



25.was the first scientist who produced

electromagnetic waves in a laboratory.

26. Arrange the following electromagnetic (e.m.) radiations in the increasing order of wavelength...... Infrared waves, Gamma rays, radiowaves, microwaves.

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27. What are electromagnetic waves ? Write

four characteristics of these waves.

28. What are electromagnetic waves ? Write

four characteristics of these waves.

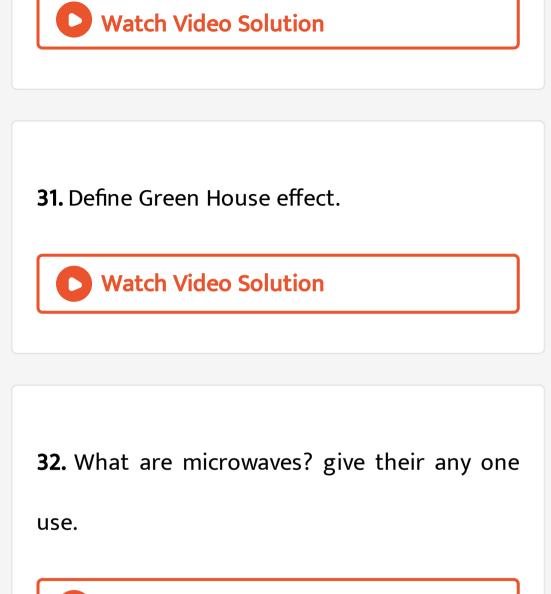


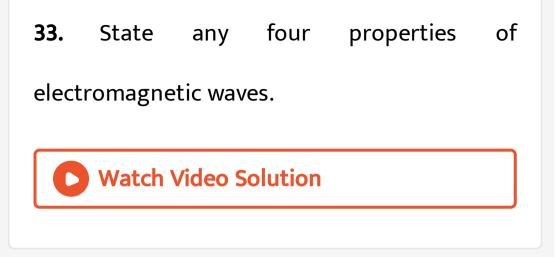
29. What are electromagnetic waves ? Write

four characteristics of these waves.



30. What is displacement current?





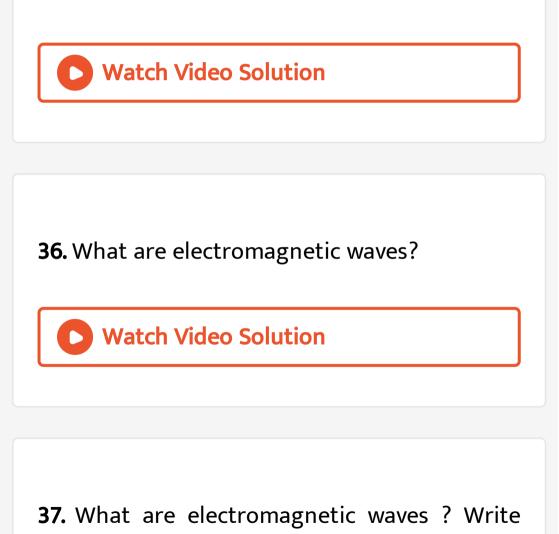
34. What are x-rays ? How do they differ from

electrons?



35. What are electromagnetic waves ? Write

four characteristics of these waves.



four characteristics of these waves.



38. Write two uses of each of the following :

Radiowaves

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39. Write two uses of each of the following :

Microwaves.

40. What are electromagnetic waves ? Write

four characteristics of these waves.



41. Write two uses of each of the following :

Microwaves.

42. Write one use of each of the following :

infrared waves

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43. Write one use of each of the following :UV

radiation



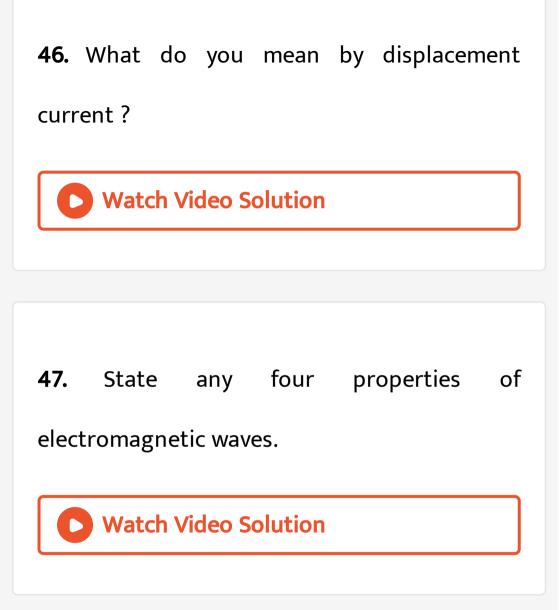
44. Write one use of each of the following

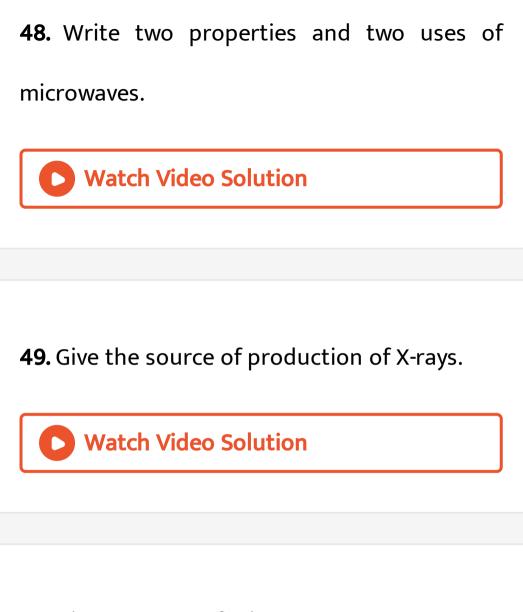
:gamma rays

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45. What are electromagnetic waves ? Write

four characteristics of these waves.





50. Give two uses of microwaves.

51. The small ozone layer on top of the stratosphere is crucial for human survival. Why

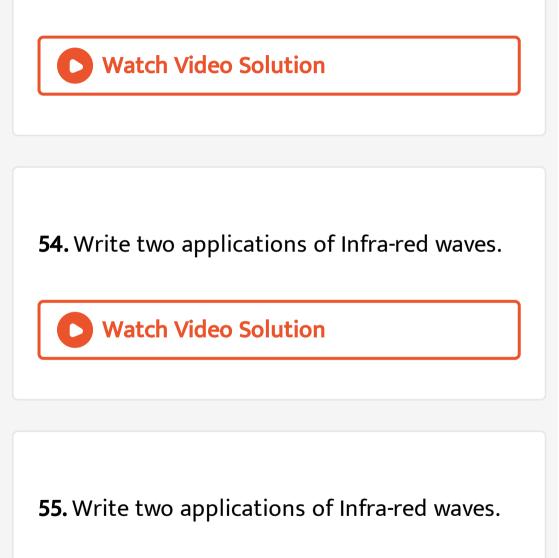
?



52. Write two applications of gamma (γ)-rays.

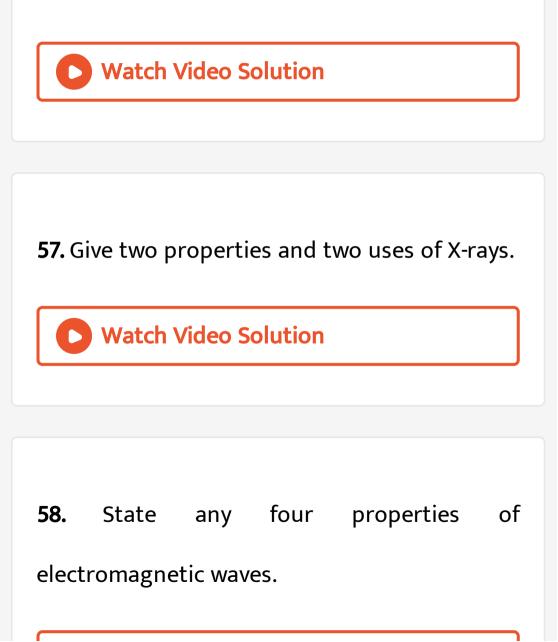


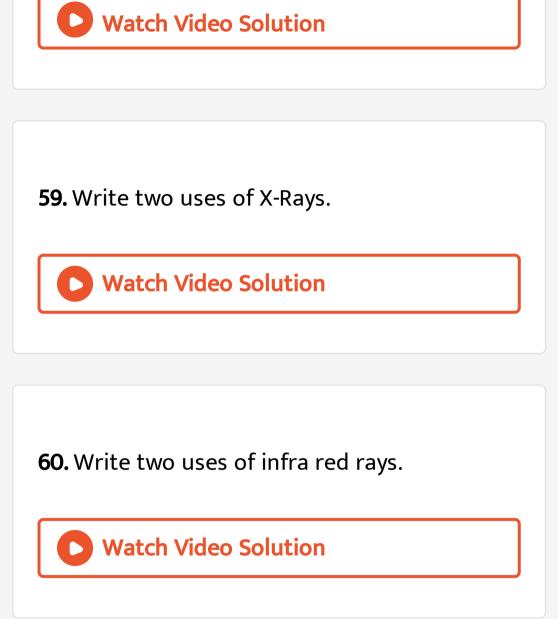
53. Give two uses of microwaves.



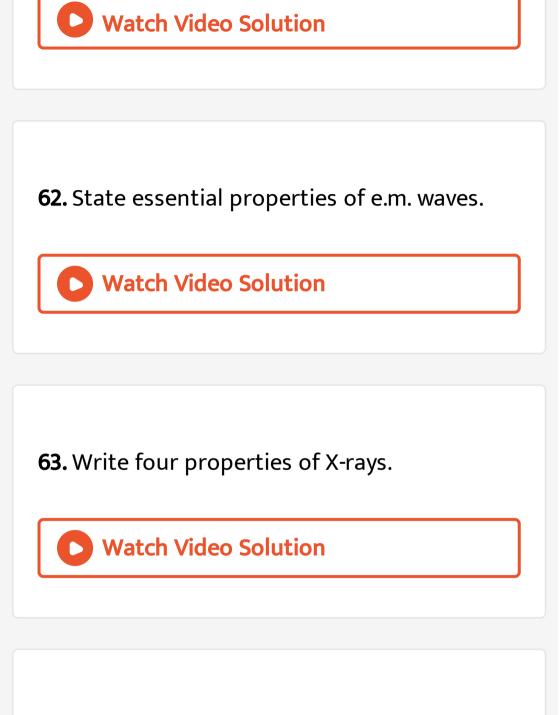
56. What are electromagnetic waves ? Explain

with the help of diagram.

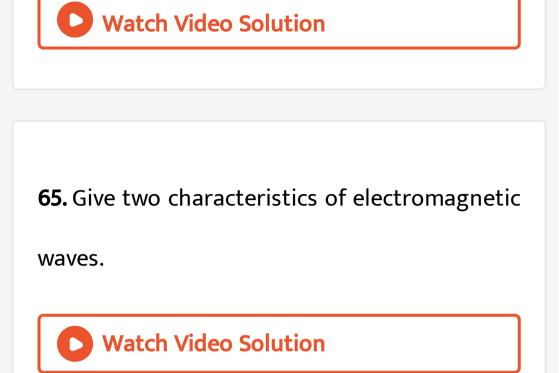




61. Write four uses of ultraviolet rays.



64. What is displacement current?



66. Write four uses of ultraviolet rays.

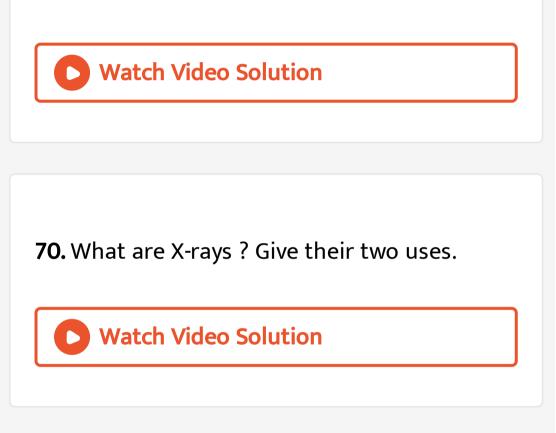
67. The small ozone layer on top of the stratosphere is crucial for human survival. Why ?





69. Give two characteristics of electromagnetic

waves.



71. What are infra-red rays ? Give their two

uses.



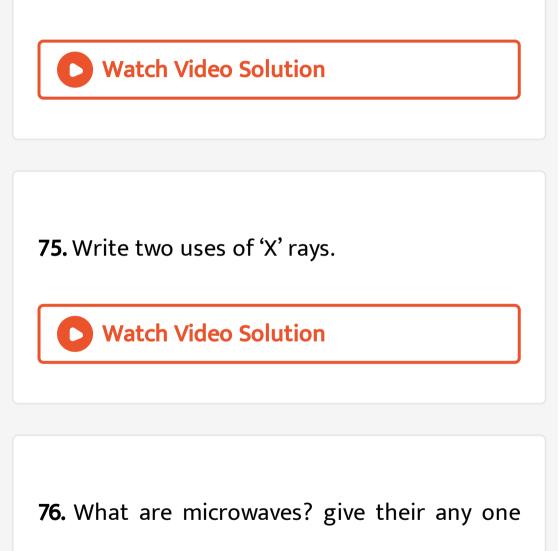
72. What are ultraviolet rays ? Give their two

uses.

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73. Write two uses of infra red rays.

74. Write two uses of Radiowaves.



use.



