



## **PHYSICS**

# BOOKS - PUNJAB BOARD PREVIOUS YEAR PAPERS

## Radioactivity



1. Half life of a certain radioactive material is

130 days. After what lapse of time, the

undecayed fraction of the material will be 25%

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**2.** Half life of a certain radioactive material is 140 days. After what lapse of time, the undecayed fraction of the material will be 25%

?

?





8. Define decay constant in Radioactivity.

9. Define Radioactivity of a radioactive

substance.



#### **10.** What are $\alpha$ -particles?



#### **11.** What are $\alpha$ -particles?



**14.** Among  $\alpha$  (alpha),  $\beta$  (beta) and  $\gamma$  (gamma) radiations, which one is not affected by a magnetic field ?



15. Among  $\alpha$  (alpha),  $\beta$  (beta) and  $\gamma$  (gamma)

rays which one has highest penetrating power

?



that radioactive decay is exponential in nature.



17. State the law of radioactive decay. Show

that radioactive decay is exponential in nature.

18. What is natural radioactivity ? What type of

radiations are emitted ? Write two properties

of each one.



19. State the law of radioactive decay. Show

that radioactive decay is exponential in nature.



**20.** What is nuclear fission and fusion.



**21.** Define Binding energy of the nucleus. Draw

and explain curve between Binding Energy per

nucleon and mass number.



that radioactive decay is exponential in nature.



#### **23.** What are nuclear forces ? Discuss

fourimportant properties of nuclear forces.



that radioactive decay is exponential in nature.

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#### 25. State the law of radioactive decay. Show

that radioactive decay is exponential in nature.

26. Give three differences between alpha, beta

and gamma rays.

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27. State the law of radioactive decay. Show

that radioactive decay is exponential in nature.

that radioactive decay is exponential in nature.

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#### 29. State the law of radioactive decay. Show

that radioactive decay is exponential in nature.

30. What is radioactivity ? Explain laws of radioactivity.

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31. State the law of radioactive decay. Show

that radioactive decay is exponential in nature.

that radioactive decay is exponential in nature.

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#### 33. State the law of radioactive decay. Show

that radioactive decay is exponential in nature.

that radioactive decay is exponential in nature.

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#### 35. State the law of radioactive decay. Show

that radioactive decay is exponential in nature.

**36.** What is radioactivity ? Explain laws of radioactivity.

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**37.** What is radioactivity ? State laws of radioactive decay and deduce an expression for decay law.Show decay is exponential innature.

