

Physics 1B (PHY 1B)

multiple choice

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1: What type of waves does a toaster use to cook bread ?

- A Microwaves
 - B Light waves
 - C Infra red waves
 - D Ultra violet waves
-

2: Which of the following has the shortest wavelength ?

- A Gamma rays
 - B X-rays
 - C Light rays
 - D Radio waves
-

3: Which of the following waves is linked to causing skin cancer ?

- A Light waves
 - B Microwaves
 - C Radio waves
 - D Ultra violet waves
-

4: If you protect your skin with factor 10 sunscreen, what does this mean ?

- A Its safe to stay in the sun all day
 - B You receive 1/10th normal UV dose
 - C You will not sunburn
 - D You will bronze more easily
-

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5: Which of the following statements about radiation is not true ?

- A There are three types of radiation
- B Gamma radiation has no mass
- C Alpha radiation is a helium nuclei
- D Beta radiation is positively charged

6: Which of the following statements is correct for gamma radiation ?

- A It is a stream of electrons
- B It is a stream of neutrons
- C It is not deflected by an electric field
- D It is a stream of protons

7: Radioactive isotopes can be used to date artefacts like material. This is ?

- A Uranium 235
- B Carbon 12
- C Carbon 14
- D Carbon 13

8: Which radioactive isotope is used in smoke detector alarms ?

- A Uranium
- B Radon
- C Plutonium
- D Americium oxide

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9: Exposure to UV light has been linked to skin cancer because ?

- A UV light damages the skin's fat layer
 - B UV light damages the skin's DNA
 - C UV light causes the skin to go brown
 - D UV light damages the cell membrane
-

10: Light from a galaxy with a 'red shift' would indicate what ?

- A It is moving towards Earth
 - B Distant and moving towards Earth
 - C Distant and moving away from Earth
 - D Close and moving away from Earth
-

11: Information from satellites is sent back to Earth using ?

- A X – rays
 - B Gamma rays
 - C Light rays
 - D Microwaves
-

12: What's the difference between a stable and radioactive isotope of the same element ?

- A Different number of electrons
 - B Same protons different neutrons
 - C Same neutrons different protons
 - D Same electrons different protons
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