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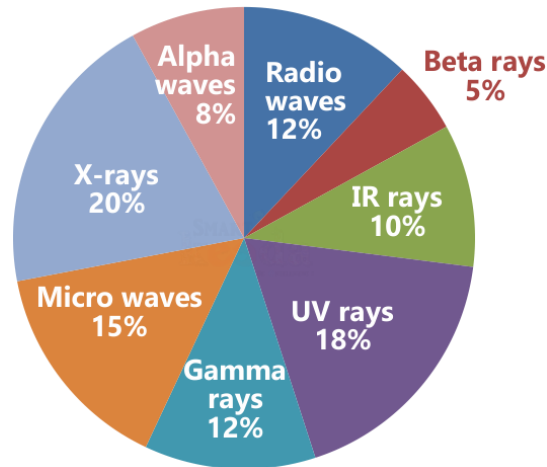
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## Date Interpretation Pie Chart Questions for Bank Exams.

### DI Pie Chart Quiz 16

Directions: Study the following graph carefully & answer the questions given below it.

Constituents of sun rays received in 1 minute



Total sun rays received in 1 minute = 3600 units

1. If the human body withstand a maximum 8750 units of IR rays when exposed to the sun continuously, then what is the maximum time that anyone can stand in the sun without crossing the threshold limit of IR rays?

- A. 24.3 minutes      B. 45 minutes      C. 20 minutes      D. 15 minutes      E. 30 minutes

2. The amount of UV rays received in 5 mins is how many time the amount of IR rays received in 2 mins?

- A. 4      B. 2.1      C. 4.5      D. 3.6      E. 5.2

3. If presently the ozone layer in the same atmosphere reflects 55% of the sun rays then what would be the amount of Gamma rays received in one minute, If the ozone layer were to disappear completely?

- A. 342      B. 432      C. 531      D. 135      E. 351

4. The amount of microwaves received in 4 mins is how much more/less that the amount of Alpha rays received in 3 minutes?

- A. 1435      B. 1142      C. 1378      D. 1296      E. 1526

5. How many minutes of exposure to the sun in a day would be enough to ensure that the body receives enough amount of vitamin D, given that the body requires 40 units of vitamin D every day and that 30 units of Beta rays generate 1 unit of vitamin D?

- A.  $4\frac{2}{3}$       B.  $3\frac{1}{3}$       C.  $5\frac{1}{3}$       D.  $6\frac{2}{3}$       E.  $7\frac{1}{3}$

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
A	C	B	D	D

**Explanations:**

**1.** Total IR rays received in 1 minute

$$= 3600 \times \frac{10}{100} = 360 \text{ units}$$

Time taken to receive 8750 units of IR

$$= \frac{8750}{360} \text{ minutes} = 24.3 \text{ minutes}$$

Hence, option A is correct.

**2.** Amount of UV rays received in 5 mins

$$= 3600 \times \frac{18}{100} \times 5 = 3240 \text{ units}$$

Amount of IR rays received in 2 minutes

$$= 3600 \times \frac{10}{100} \times 2 = 720 \text{ units}$$

Amount of UV rays in 5 minutes of sun rays,

$$= \left( \frac{3240}{720} \right)$$

= 4.5 times the amount of IR rays received in 2 mins.

Hence, option C is correct.

**3.** The amount of Gamma rays received when the ozone layer cover to completely disappears = 100%

The amount of Gamma rays received in one minute if the ozone layer were to completely disappear,

$$= 3600 \times \frac{12}{100} \text{ units} = 432 \text{ units}$$

Hence, option B is correct.

**4.** Amount of Microwaves received in 4 mins

$$= 3600 \times \frac{15}{100} \times 4 = 2160 \text{ units}$$

Amount of Alpha rays received in 3 minutes

$$= 3600 \times \frac{8}{100} \times 3 = 864 \text{ units}$$

∴ Amount of Microwave received in 4 mins is  $(2160 - 864)$  units = 1296 units more than the amount of Alpha rays received in 3 mins.

Hence, option D is correct.

**5.** Given, that the body requires 40 units of vitamin D every day.

To generate 1 unit of vitamin D, requirement of Beta rays = 30

To generate 40 units of vitamin D, requirement of Beta rays =  $(30 \times 40) = 1200$  units

Now, in 1 minute

$$= 3600 \times \frac{5}{100}$$

= 180 units Beta rays are received.

∴ 180 units Beta rays are received in 1 minute

∴ 1200 units Beta rays received in

$$\frac{1}{180} \times 1200 = \frac{120}{18} = 6\frac{2}{3} \text{ minutes.}$$

Hence, option D is correct.





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