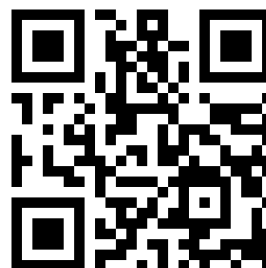


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Science Physical about Worksheet الملف

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Date:

## Online Test-1

Name:

## Physical Science

Class:

### I. Multiple choice questions

- Radioactive decay is a \_\_\_\_\_.
  - random process
  - Non – Spontaneous process
  - Regular process
  - Massive process
- 1U is equal to
  - $1.660 \times 10^{-27}$ kg
  - $2 \times 10^{-27}$ kg
  - $3 \times 10^{-27}$ kg
  - $5 \times 10^{-27}$ kg
- In gamma emission , the change in nucleon number is .
  - zero
  - definite
  - increase by 1
  - decreases by 1
- \_\_\_\_\_ isotope is used for the treatment of cancer.
  - Radio Iodine
  - Radio Cobalt
  - Radio Carbon
  - Radio Nickel
- Which of the following is the  $\beta^-$  particle.
  - $+e^0$
  - $-e^0$
  - ${}_0n^1$
  - ${}_1H^0$

### II. Fill in the blanks.

$3.7 \times 10^{10}$  antiparticle of electron    Gamma    Nucleons    Alpha rays

- \_\_\_\_\_ is not electromagnetic nature.
- Protons and neutrons in the nucleus are called as \_\_\_\_\_.
- One roentgen is equal to \_\_\_\_\_.
- Positron is an \_\_\_\_\_.
- ${}_Z X^A \rightarrow {}_Z Y^A + X$ ; this reaction is possible in \_\_\_\_\_ decay.

### III. True or False.

1. To detect the explosives in the luggage  $\text{Am}^{241}$  is used.
2. x-rays can pass through calcium.
3. uv rays are used in the treatment of skin disorders.
4. Plutonium -239 is a fissionable material.
5. Nuclear fusion is more dangerous than Nuclear fission.

### IV. Mark the following.

1. Safe limit - Boron
2. Activity of sample - Liquid sodium
3. Moderator - 100R
4. Control rod - Heavy water
5. Coolant - Becquerel