Rayat Shikshan Sansta's

Rajarshi Chhatrapati Shahu College, Kolhapur.

Department of Chemistry

B.Sc.-III ,Unit Test (Nuclear chemistry)

Paper-XIII,,Sem-VI

Time : 1 hr
Total marks : 25

Subject: Inorganic Chemistry
Date : 22/03/2018

Q. 1. Select the most correct alternative and rewrite the following sentences [05]

i] The isotope emitting radioactivity is called.....isotope.

a) radio b) recoil

c) daughter d) fertile

ii] Thorium is used as a blanket because it is.....

a) useless b) Causing less pollution

c) fertile d) non fertile

iii] Artificial radioactivity was discovered by .....

a) Iren Curie Joliot and F.Joliot b) Strassman

c) Bethe d) Rutherford and chadwick

iv] Central rod used to absorb excess neutrons in nuclear reactor are made up of.....

a) Thorium b) Platinum

c) Cadmium d)) Calcium

v] Nuclear fusion reactions are called.....reactions.

a) thermonuclear b) thermogravimetric

c) thermoplastic d) homonuclear

Q. 2. Short Answer Question (Attempt Any Two) [10]

i] What is artificial atomic transmutation.

ii] Give difference between nuclear fission and fusion reaction.

iii] Write a note on nuclear reactor.

Q. 3. Long Answer Question (Attempt Any One) [10]

i] Discuss nuclear fission reaction in detail.

ii] Give applications of radioisotopes as tracers.

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