	Shree H N Shukla group of colleges
	T.Y.B.Sc. (Sem. VI) (CBCS)
	Unit Test examination
SHUKIA COUNS OF ST	PAPER- 601
	UNIT - 2 : RADIOACOTIVITY
DATE : TOTAL MARKS : 30	
Instructions: All questions are compulsory.	
	The right side figure indicates total marks of the question.
	Draw the figure wherever necessary.
SECTION-A	
Q.1: One m	arks questions: [5 MARKS]
1 T	he ionisation power of $lpha$ particle is time greater than eta rays.
2 T	he particle are identical with electron.
3 T	he unit of radioactivity is
4 T	The $\boldsymbol{\beta}$ particle have charges.
5 V	Vrite equation of Half life time :
SECTION – B	
Q.2 (A): Sho	ort Questions: Write all three : [2 Marks each] [6 MARKS]
1 V	Vhat is the mass of 1 Curie of U ²³⁸
2 A	radioactive substance has half life of 30 days . Claculate the radioacitve
d A 3 a	lisintegraiton constant. A radioactive substance has half life of 50 days . Find the radioactive decay constant nd mean llife.
Q.2 (B) : Sh	ort questions: Write all three: [3 Marks each] [9 MARKS]
1 V	Vrite properties of APLHA rays.
2 V	Vrite properties of GAMMA rays.
3 E	xplain the radioactive THORIUM series.
Q.2 (C): Wr	Ite Detail Note on [Any two]: [5 Marks each] [10 MARKS]
1 E	xplain Half life and Mean life .
2 E	xplain the application of Radio isotope.
3 D	Describe the theory of ALPHA decay.
4 E	xplain natural radioactivity series.