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K19U 2270

Reg. No. :

Name :

V Semester B.Sc. Degree (CBCSS- Reg./Sup./Imp.) Examination,
November-2019

(2014 Admn. Onwards)

Core Course in Physics

5B 10 PHY: ATOMIC, NUCLEAR & PARTICLE PHYSICS

Time : 3 Hours

Max. Marks : 40

*Write answers in English only.***SECTION - A**

Answer All - Very short answer type - each question carries 1 mark.

(4×1=4)

1. What is the SI unit of radioactivity?
2. Which element is used to date the objects of biological origin?
3. ----- is the antiparticle of the electron.
4. When the spin of an element is $\frac{1}{2}$ then we obtain ----- state.

SECTION - BAnswer any **SEVEN** - short answer type - Each question carries **TWO** marks. (7×2=14)

5. Write a note on spin-orbit coupling.
6. Write a note on atomic structures.
7. Explain the eightfold way of classification of hadrons.
8. What is Franck-Hertz experiment?
9. How emission and absorption spectral lines originate.

P.T.O.

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Marcel A. Müller



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