

SREE NARAYANA COLLEGE, KOLLAM
Semester III M.Sc. Model Examination
Inorganic Chemistry III

3 hrs.

75 marks

Section A

(Answer any two questions among (a), (b) and c) from each question. Each sub-question carries 2 marks)

5. (a) Write down nuclear shell model
- (b) What are Photonuclear reactions?
- (c) Explain Nuclear fission with example

Section B

(Answer either (a) or (b) of each question. Each question carries 5 marks)

5. (a) Explain Scintillation and Geiger muller counter
- (b) Give liquid drop model and optical model of nucleus

Section C

(Answer any three questions. Each question carries 10 marks)

1. a) Explain the functioning of nuclear reactor with a diagram.
- b) Write postulates of Fermi gas model of nucleus