

**B.Sc. RADIOLOGY IMAGING TECHNOLOGY /
RADIO DIAGNOSIS TECHNOLOGY**

FIRST YEAR

**PAPER II – GENERAL PHYSICS, RADIATION PHYSICS AND
PHYSICS OF DIAGNOSTIC RADIOLOGY**

Q.P. Code: 801802

Time : Three Hours

Maximum : 100 marks

Answer ALL questions

I. Elaborate on:

(3 x 10 = 30)

1. The properties of α , β and γ rays.
2. The production of X-rays with a diagram.
3. Any one x-ray circuit with a neat sketch

II. Write notes on:

(8 x 5 = 40)

1. What are ferromagnetic materials? What are magnetic lines forces? Mention unit of magnetic strength.
2. Radioactive materials.
3. Derivation of the equation for radioactive decay.
4. Factors that affect the quality and intensity of X-rays.
5. Heel effect of an X ray tube.
6. Note on characteristic spectrum. Which is the component in the X-ray tube that changes characteristic spectrum?
7. Photoelectric effect and its relevance in diagnostic radiology?
8. Note on radiation detection and measurements.

III. Short Answers on:

(10 x 3 = 30)

1. What is the law of conservation of energy?
2. Define work. What is the unit of work?
3. Mention briefly the atomic structure and atomic particles.
4. Define electric current. What is its unit?
5. Write Newton's laws of forces (any two). Give an example for the third law.
6. What is main advantage of rotating anode over the stationary anode?
7. What is natural radioactivity?
8. Define half-life of a radioactive substance. Write the equation to calculate the halflife.
9. What are radioisotopes and how are they prepared?
10. What are equipments used for radiation survey?

Mechano Technology Question Paper

Clifford Lane



Mechano Technology Question Paper:

Papermaking, Converting, Allied Science and Technology ,1959 **Rubber Chemistry and Technology** ,1961
Manufacturing Science and Technology, ICMST2011 Wu Fan,2011-11-22 Selected peer reviewed papers from the 2011
International Conference on Manufacturing Science and Technology ICMST 2011 September 16 18 2011 Singapore
Paper ,1977 *Advanced Materials and Manufacturing Technology I* Dun Wen Zuo,Chuan Zhen Huang,Ming Chen,Jun
Li,Guo Hun,2012-01-03 Special topic volume with invited peer reviewed papers only *Journal of Pulp and Paper Science*
,1997 Applied Mechanics Reviews ,1961 **Nuclear Science Abstracts** ,1974 *British Medical Journal* ,1920
Pulp and Paper Manufacture ,1958 *Colloid Journal* ,1957 **Insdoc List** ,1965-05 Colloid Journal of the
USSR ,1957 Bibliography of Pulp and Paper Manufacture ,1958 **Journal of Communications Technology &**
Electronics ,1994 **Textile Technology Digest** ,1944 **Bibliography of Pulp and Paper Making and United**
States Patents on Paper Making and Related Subjects ,1959 **Youth's Companion** ,1925 **Dun's Review** ,1945
Technical Association of the Pulp and Paper Industry ,1971

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