

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[DM 0822]

AUGUST 2022

Sub. Code :1301

D.M. – MEDICAL ONCOLOGY

**Paper I – BASIC SCIENCES (RADIATION PHYSICS TUMOUR
BIOLOGY, BIOCHEMISTRY, BIOMETRY IMMUNOLOGY AND
PHARMACOLOGY)**

Q.P. Code: 161301

Time: Three Hours

Maximum: 100 Marks

I. Elaborate on: (2 x 15 = 30)

1. Describe and elaborate the various stages of drug development.
2. Describe various molecular diagnostic methods in cancer and Elaborate their use in detection of various genetic and chromosomal aberrations.

II. Write notes on: (10 x 7 = 70)

1. How to do a literature search in oncology?
2. Different types of performance status scales used in cancer Management.
3. Population based Cancer registries in India.
4. Vaccines for prevention of Cancer.
5. Describe Null hypothesis, alternate hypothesis, type 1 error, type 2 error in statistics.
6. Various Designs used in Phase I clinical trials.
7. Management of Multi Drug Resistant (MDR) sepsis in Febrile Neutropenia.
8. PIK3CA inhibitors in Cancer.
9. Constitution of an ethical committee, its role and responsibilities.
10. Obesity and Cancer.
