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MANIPAL UNIVERSITY

FIRST YEAR B.Sc. M.L.T./B.Sc. N.M.T./B.Sc. R.T./B.Sc. M.R.T./B.Sc. M.I.T./ B.Sc. C.V.T./
B.Sc. R.R.T & D.T./M.Sc. N.M.T.

FIRST SEMESTER B OPTOM./B.Sc. H.I.A./ B.Sc. P.F.T.

DEGREE EXAMINATION – JUNE 2014

SUBJECT: ANATOMY/GENERAL ANATOMY

Tuesday, June 03, 2014

Time: 10.00-11.30 Hrs.

Max. Marks: 40

✍ Answer ALL the questions.

Health Sciences Library

1. Name the parts of respiratory system. Describe the right lung in detail.

(5+5 = 10 marks)

2. Write short notes on the following:

2A. Spermatic cord

2B. Pericardium

2C. Gall bladder

2D. Spinal cord

2E. Tongue

2F. Fibrous joints

(5 marks × 6 = 30 marks)



MANIPAL UNIVERSITY

FIRST YEAR B.Sc. M.R.T. DEGREE EXAMINATION – JUNE 2014

SUBJECT: RADIOBIOLOGY
(2011 SCHEME)

Saturday, June 07, 2014

Time: 10:00-11:30 Hrs.

Max. Marks: 40

HEALTH SCIENCES LIBRARY

1. Answer following questions:

- 1A. What are the effects of radiation on Hematopoietic System?
- 1B. Discuss the consequences of radiation on male and female reproductive system.
- 1C. Briefly discuss Compton effect.
- 1D. What is target theory? Explain its significance in radiotherapy.

(5 marks \times 4 = 20 marks)

2. Answer following questions:

- 2A. What are the genetic effects of radiation? Describe in detail about the types of chromosomal aberrations after irradiation.
- 2B. What is cell survival curve? Draw a typical shouldered *in vitro* mammalian cell survival curve and explain the parameters D_0 , D_q and N .

(10 marks \times 2 = 20 marks)