SC—2018

FIRST YEAR B.Sc. (RADIOGRAPHY) DEGREE EXAMINATION, 2002

RADIOLOGICAL PHYSICS

Time : Three Hours

Maximum : 80 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essays : (Answer any *two*)

1 Describe the basic features of a stationary anode X-ray tube with a neat diagram, explaining various parts. How cooling of anode takes place ?

2 Explain a full wave rectified X-ray power supply and its working.

3 Differentiate self induction and mutual induction. Explain *two* transformers with both of these principles.

(2 × 10 = 20 marks)

II. Short Essays : (Answer any *eight*)

4 Filters.

5 Moving coil meter.

6 Radioisotope.

7 Phosphorescence.

8 Capacitors.

9 Photoelectric absorption.

10 Electromagnetic radiations.

11 Radiation detectors.

12 Mutual induction.

13 Exponential decay.

DR. MULER'S CENTRAL LIBRARY

(8 × 5 = 40 marks)

III. Short Answers :

14 Ampere.

15 Ohm's law.

16 Properties of electromagnetic radiation.

17 Distortion of image.

18 Photogrpahic film density.

19 Mass number of elements.

20 Alternating current.

21 Pocket dosimeter.

22 Characteristic X-rays.

23 Electromagnetic relay.

(10 × 2 = 20 marks)

SC—2017

FIRST YEAR B.Sc. (RADIOGRAPHY) DEGREE EXAMINATION, 2002

PHYSIOLOGY

Time : Three Hours

Maximum : 80 Marks

Your answers shall be specific to the questions asked.
Draw neat and labelled diagrams wherever necessary.

I. Long Essays : (Answer any *two*)

1 Describe the mechanism of formation of urine.

2 Name the hormones that maintain the normal blood calcium level. What are its actions ? What is the effect of its decreased secretions ?

3 Define cardiac output. What are the factors that influences it ? How is it measured ?

(2 × 10 = 20 marks)

II. Short Essays : (Answer any *eight*)

4 Rh factor.

5 Refractive errors of eye.

6 ESR.

7 Erythropoiesis.

8 Functions of Liver.

9 Functions of Saliva.

10 Surfactant.

11 Asphyxia.

12 Artificial respiration.

13 Receptors (definition, classification and properties)



(8 × 5 = 40 marks)

III. Short Answers :

14 Name the Gonadotrophic hormones.

15 Name the ascending tracts present in the spinal cord.

16 Mention the different types of Hypoxia.

17 Mention the tests for Hearing.

18 Mention any *two* bleeding disorders.

19 What is the normal (i) MCV ; (ii) MCH ; (iii) MCHC ; (iv) Colour index ?

20 Name the junctional tissue of the heart.

21 What is the normal heart rate and respiratory rate.

22 Name any *four* hormones of the GIT.

23 Name the contractile and regulatory proteins present in the skeletal muscles.

(10 × 2 = 20 marks)

SC—2018

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RADIOLOGICAL PHYSICS

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CENTRAL LIBRARY

(8 × 5 = 40 marks)

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(10 × 2 = 20 marks)

SC—2017

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PHYSIOLOGY

Time : Three Hours

Maximum : 80 Marks

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Draw neat and labelled diagrams wherever necessary.

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II. Short Essays : (Answer any *eight*)

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