

PM/PD Exam 2019 (II)  
APPLIED ANATOMY & PHYSIOLOGY  
(X-RAY Technician Course)

Paper - 1

1<sup>st</sup> Year

Full Marks - 100  
Time - 3 Hours

Answer All questions.

1. Write the Positioning and factors following X-Ray -

( 4 x 5 = 20 )

- (a) Chest PA view
- (b) Skull Waters view
- (c) Lendotic view
- (d) X-Ray K U B

( 5x4=20 )

2. Write short note on -

- (a) Bones of Skull
- (b) Right lung
- (c) C.S.F.
- (d) Name-function of Cerebellum.

3. Name the different parts of digestive system. Describe stomach in detail.

(15)

4. Name the endocrine glands of human body. Discuss thyroid gland in detail.

(15)

5. Define synovial joint and its types with examples.

(15)

6. Name the muscles of upper limb. Describe deltoid in detail.

(15)

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PM/PT Exam 2019(1)  
RADIOPHYSICS PERTAINING TO RADIOLOGY  
( X-RAY Technician Course )

Paper - I

1<sup>st</sup> Year

Full Marks - 100.  
Time - 3 Hours.

Answer all questions.

[A]. Fill in the blanks :

( 2x10=20 )

- (i) Most common material used to provide protection against X-ray ... Lead .....
- (ii) C.T. was invented by Credney Howesfeld
- (iii) Rhodium... Target used in mammography .
- (iv) Electron volt (Ev) is the unit of ... Energy .....
- (v) Unit of magnetic field in MRI is ... 0.5 gauss .....
- (vi) The unit of absorbed dose of radiation .....
- (vii) Cathode and anode are part of ... X-ray tube .....
- (viii) The contrast used in MRI is .....
- (ix) EM radiation with shortest wave length is .....
- (x) The target of X-ray tube is often made of .....

[B]. Write short note on the following:

( 5x4=20 )

- (a) Auto Transformer.
- (b) Luminescence
- (c) Ohm's Law
- (d) Isotope

[C]. Answer in detail :

- (1) Name the different EM radiations . How ultrasound is different from EM radiation ? (15)
- (2) Describe the various types of intensifying screens - What is the difference between conventional X-ray cassette and DR cassettes . (15)
- (3) Describe the construction of X-ray film . How image is produced over an exposed film after developing . (15)

[D]. Write the positioning and factors in following X-ray :

( 3x5=15 )

- (a) X-Ray KUB.
- (b) Skull Lat View
- (c) Waters view for PNS.