

PYQSide

NEET DUAL NATURE OF RADIATION AND MATTER — ELECTRON EMISSION, WORK FUNCTION — PYQS

Max. Marks: 20

Questions: 5

Section A (MCQ)

Q.1 The energy required to break one bond in DNA is 10^{-20} J. This value in eV is nearly :

[NEET (UG) 2020]

- (1) 0.6 (2) 0.06 (3) 0.006 (4) 6

Scan or tap for the full solution 

Q.2 In a discharge tube ionization of enclosed gas is produced due to collisions between [AIPMT 2006]

- (1) neutral gas atoms/molecules
(2) positive ions and neutral atoms/molecules
(3) negative electrons and neutral atoms/molecules
(4) photons and neutral atoms/molecules.

Scan or tap for the full solution 

Q.3 J.J. Thomson's cathode-ray tube experiment demonstrated that [AIPMT 2003]

- (1) cathode rays are streams of negatively charged ions
(2) all the mass of an atom is essentially in the nucleus
(3) the e/m of electrons is much greater than the e/m of protons
(4) the e/m ratio of the cathode-ray particles changes when a different gas is placed in the discharge tube

Scan or tap for the full solution 

Q.4 Which of the following is not the property of cathode rays? [AIPMT 2002]

- (1) It produces heating effect
(2) It does not deflect in electric field
(3) It casts shadow
(4) It produces fluorescence.

Scan or tap for the full solution 

Q.5 Who evaluated the mass of electron indirectly with help of charge [AIPMT 2000]

- (1) Thomson (2) Millikan
(3) Rutherford (4) Newton

Scan or tap for the full solution 

ANSWER KEY

Ques.	1	2	3	4	5						
Ans.	2	3	3	2	1						