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

Max. Marks: 20 **Questions:** 5

Section A (MCQ) — 5 questions

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

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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.

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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

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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.

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

(1) Thomson (2) Millikan

(3) Rutherford (4) Newton

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ANSWER KEY

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