

THE VOLUME EDUCATION ACADEMY - NEET (UG)
National Eligibility cum Entrance Test
MODEL QUESTION PAPER 2026

Exam Details	Marking Scheme
Total Questions: 180	Correct Answer: +4 marks
Physics: 45 questions	Wrong Answer: -1 mark
Chemistry: 45 questions	Unattempted: 0 marks
Botany: 45 questions	Maximum Marks: 720
Zoology: 45 questions	Duration: 180 Minutes

GENERAL INSTRUCTIONS

1. This paper consists of 180 objective type questions. Each question carries 4 marks.
2. For each incorrect response, one mark will be deducted from the total score.
3. No deduction from the total score if no response is indicated for an item.
4. There is only one correct response for each item. Filling up more than one response will be treated as wrong.
5. Use blue/black ball point pen for marking. Do not use pencil.

Q.N	Question
1	A particle moves in a circle of radius 5 cm with constant speed and takes 0.2 s for one complete revolution. What is the acceleration of the particle? (A) 49.3 m/s ² (B) 9.8 m/s ² (C) 19.6 m/s ² (D) 4.9 m/s ²
2	A body of mass 1 kg is thrown upward with a velocity of 20 m/s. It momentarily comes to rest after attaining a height of 18 m. How much energy is lost due to air friction? (g = 10 m/s ²) (A) 30 J (B) 20 J (C) 10 J (D) 40 J
3	The wavelength of the first line of the Lyman series of hydrogen is 1215 Å. The wavelength of the second line is: (A) 1026 Å (B) 975 Å (C) 1215 Å (D) 6563 Å
4	Two identical capacitors, each of capacitance C, are connected in series across a battery of EMF V. What is the energy stored in the combination? (A) CV ² /4 (B) CV ² /2 (C) CV ² (D) 2CV ²
5	A wire of resistance 12 Ω is bent to form a complete circle. What is the resistance between two diametrically opposite ends? (A) 3 Ω (B) 6 Ω (C) 12 Ω (D) 24 Ω
6	The magnetic moment of an electron revolving around the nucleus in an orbit of radius r with speed v is:

	(A) $evr/2$ (B) evr (C) $2evr$ (D) $evr/4$
7	A photon of energy 10.2 eV collides with a hydrogen atom in ground state inelastically. After some time, the atom again returns to the ground state. The number of photons emitted will be: (A) 1 (B) 2 (C) 3 (D) 4
8	Young's modulus of steel is 2×10^{11} N/m². If a steel wire of area 1 cm² is stretched by a load of 10 kN, the percentage increase in length is: (A) 0.005% (B) 0.05% (C) 0.5% (D) 5%
9	A body is projected at an angle of 45° with the horizontal with kinetic energy K. At the highest point, its kinetic energy will be: (A) $K/2$ (B) $K/\sqrt{2}$ (C) K (D) Zero
10	The half-life of a radioactive substance is 30 min. After 2 hours, what fraction of it will remain? (A) 1/16 (B) 1/8 (C) 1/4 (D) 1/2
46	Which of the following has the maximum number of unpaired electrons? (A) Mg^{2+} (B) Ti^{3+} (C) V^{3+} (D) Fe^{2+}
47	The IUPAC name of the compound $CH_3-CH(OH)-CH_2-CHO$ is: (A) 3-hydroxybutanal (B) 2-hydroxybutanal (C) 3-methylpropanal (D) 4-hydroxybutanal
48	In the reaction: $PCl_5 \rightleftharpoons PCl_3 + Cl_2$, the equilibrium constant K_p is related to K_c by: (A) $K_p = K_c(RT)$ (B) $K_p = K_c(RT)^2$ (C) $K_p = K_c/(RT)$ (D) $K_p = K_c$
49	The standard reduction potential of Zn^{2+}/Zn is -0.76 V and that of Cu^{2+}/Cu is +0.34 V. The EMF of the cell $Zn Zn^{2+} Cu^{2+} Cu$ is: (A) 1.10 V (B) 0.42 V (C) -1.10 V (D) -0.42 V
50	The molarity of a solution prepared by dissolving 0.4 g of NaOH ($M = 40$) in 100 mL of water is: (A) 0.1 M (B) 0.4 M (C) 1.0 M (D) 4.0 M

51	Which of the following is an example of SN1 reaction? (A) Hydrolysis of t-butyl bromide (B) Hydrolysis of methyl bromide (C) Reaction of Br₂ with benzene (D) Reaction of HBr with ethene
52	The geometry of XeF₄ according to VSEPR theory is: (A) Square planar (B) Tetrahedral (C) See-saw (D) Square pyramidal
53	Which of the following amino acids is essential? (A) Lysine (B) Glycine (C) Alanine (D) Serine
54	The reaction of benzene with Cl₂ in the presence of AlCl₃ gives: (A) Chlorobenzene (B) Benzene hexachloride (C) Dichlorobenzene (D) Trichlorobenzene
55	What is the hybridization of the central atom in SF₆? (A) sp³d² (B) sp³ (C) sp³d (D) sp²
91	In which phase of meiosis does the crossing over occur? (A) Pachytene (B) Zygotene (C) Leptotene (D) Diplotene
92	Which enzyme is responsible for the replication of DNA? (A) DNA polymerase III (B) RNA polymerase (C) Helicase (D) Ligase
93	The term 'gene' was coined by: (A) Johannsen (B) Mendel (C) Morgan (D) Darwin
94	Which of the following is a vestigial organ in humans? (A) Coccyx (B) Appendix (C) Ear muscles (D) All of these
95	Photosystem I has its reaction centre at: (A) P700 (B) P680 (C) P600 (D) P720
96	Which vitamin is synthesized in the skin in the presence of sunlight? (A) Vitamin D (B) Vitamin C

	(C) Vitamin K (D) Vitamin B12
97	The stage in which the primary oocyte completes its first meiotic division is: (A) At the time of ovulation (B) Before puberty (C) At fertilization (D) During embryonic development
98	Phenylketonuria is an example of: (A) Inborn error of metabolism (B) Chromosomal disorder (C) Sex-linked disorder (D) Polygenic disorder
99	Which part of the human brain is the centre for hunger and satiety? (A) Hypothalamus (B) Thalamus (C) Cerebellum (D) Medulla oblongata
100	The first hormone produced using recombinant DNA technology was: (A) Insulin (B) Growth hormone (C) Glucagon (D) Thyroxine

This is a model/practice paper only.