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JEE Main 2026 Mock Test Paper (Set 1) — Free with Answer Key

JEE Main 2026 Mock Test Paper

Set 1 — Full Length Practice Paper

TOTAL QUESTIONS

90

MAXIMUM MARKS

300

DURATION

3 Hours

SUBJECTS

PCM

General Instructions

1. This paper has **90 questions** divided into 3 subjects: Physics, Chemistry, and Mathematics.
2. Each subject has **Section A (20 MCQs)** and **Section B (10 Numerical Value Questions)**.
3. **Section A:** Each MCQ carries **+4 marks** for correct answer and **-1 mark** for wrong answer.
4. **Section B:** Attempt **any 5 out of 10** questions. Each carries **+4 marks**. **No negative marking**.
5. Total marks: **300** (each subject: 100 marks).
6. No calculator or log table is allowed.
7. Use of mobile phones or electronic devices is prohibited.
8. For numerical answers, round to **2 decimal places** unless stated otherwise.

PHYSICS

30 Questions | 100 Marks

Section A — Multiple Choice Questions (Q1 to Q20)

Each question has 4 options. Only ONE is correct. +4 for correct, -1 for incorrect.

Q1

Easy

Two point charges $+4 \mu\text{C}$ and $-2 \mu\text{C}$ are placed 20 cm apart in vacuum. The electric field is zero at a point on the line joining the charges at a distance from the $+4 \mu\text{C}$ charge of:

(a) $20(2 + \sqrt{2})$ cm, on the side of $-2 \mu\text{C}$ away from $+4 \mu\text{C}$

(b) $20(\sqrt{2} + 1)$ cm, beyond $-2 \mu\text{C}$

(c) $20(2 + \sqrt{2})$ cm, beyond $-2 \mu\text{C}$

(d) 40 cm, beyond $-2 \mu\text{C}$

Q2

Medium

A parallel plate capacitor of capacitance C is charged to potential V . It is then disconnected from the battery and the plates are pulled apart to twice the original separation. The energy stored in the capacitor now is:

(a) CV^2

(b) $\frac{1}{2}CV^2$

(c) $2CV^2$

(d) $\frac{1}{4}CV^2$

Q3

Easy

The drift velocity of electrons in a copper wire carrying a current of 2 A is v . If the current is doubled and the wire diameter is halved, the new drift velocity is:

(a) $2v$

(b) $4v$

(c) $8v$

(d) v

Q4

Medium

A galvanometer of resistance 50Ω gives full-scale deflection for a current of 1 mA. To convert it into a voltmeter of range 0–10 V, the resistance to be connected in series is:

(a) 9950 \u03a9

(b) 10000 \u03a9

(c) 9900 \u03a9

(d) 950 \u03a9

Q5

Hard

A charged particle of mass m and charge q enters a uniform magnetic field B perpendicular to its velocity v . The particle follows a circular path. If the kinetic energy of the particle is doubled, the new radius of the circular path becomes:

(a) $\sqrt{2}$ times the original radius

(b) 2 times the original radius

(c) 4 times the original radius

(d) same as the original radius

Q6

Medium

A bar magnet of magnetic moment M is placed in a uniform magnetic field B . The torque acting on the magnet is maximum when the angle between M and B is:

(a) 0°

(b) 45°

(c) 90°

(d) 180°

Q7

Medium

A circular coil of 200 turns and radius 10 cm is placed in a uniform magnetic field of 0.5 T. The coil rotates at 60 rev/s about an axis perpendicular to the field. The maximum EMF induced in the coil is approximately:

(a) 1184 V

(b) 592 V

(c) 3770 V

(d) 118 V

Q8

Easy

In an AC circuit with only a pure inductor, the current:

(a) leads the voltage by $\pi/2$

(b) lags the voltage by $\pi/2$

(c) is in phase with voltage

(d) leads the voltage by $\pi/4$

Q9

Hard

In an LCR series circuit, $L = 0.1 \text{ H}$, $C = 10 \mu\text{F}$, and $R = 100 \Omega$. The circuit is driven by an AC source of 200 V (rms) . At resonance, the voltage across the capacitor is:

(a) 200 V

(b) 2000 V

(c) 20 V

(d) 632 V

Q10

Easy

Which of the following electromagnetic waves has the highest frequency?

(a) Microwaves

(b) Ultraviolet rays

(c) Gamma rays

(d) X-rays

Q11

Medium

A convex lens of focal length 20 cm is placed coaxially with a concave lens of focal length 40 cm . If an object is placed 30 cm in front of the convex lens, the final image is formed at:

(a) 120 cm from the concave lens

(b) 60 cm from the convex lens

(c) infinity

(d) 40 cm from the concave lens

Q12**Medium**

In Young's double-slit experiment, the fringe width is β . If the entire apparatus is immersed in a liquid of refractive index μ , the new fringe width becomes:

(a) $\mu\beta$ **(b)** β/μ **(c)** β **(d)** β/μ^2 **Q13****Easy**

The work function of a metal is 4.2 eV. The threshold wavelength for photoelectric emission from this metal is approximately: ($h = 6.63 \times 10^{-34}$ J s, $c = 3 \times 10^8$ m/s)

(a) 295 nm**(b)** 540 nm**(c)** 420 nm**(d)** 620 nm**Q14****Hard**

The de Broglie wavelength of an electron accelerated through a potential difference of V volts is λ . If the potential difference is increased to $4V$, the new de Broglie wavelength is:

(a) $\lambda/2$ **(b)** 2λ **(c)** $\lambda/4$ **(d)** 4λ **Q15****Medium**

In the Bohr model of the hydrogen atom, the ratio of the speed of the electron in the 3rd orbit to the speed in the 1st orbit is:

(a) 1:3**(b)** 3:1

(c) 1:9

(d) 9:1

Q16

Medium

The binding energy per nucleon for $^{40}_{20}\text{Ca}$ is 8.6 MeV and for $^{92}_{42}\text{Mo}$ is 8.7 MeV. If two $^{40}_{20}\text{Ca}$ nuclei fuse to form $^{80}_{40}\text{Mo}$ (approximately), the energy released would be approximately:

(a) 8 MeV

(b) 16 MeV

(c) 4 MeV

(d) 0.1 MeV per nucleon, so about 8 MeV total

Q17

Easy

In a full-wave rectifier, if the input frequency is 50 Hz, the output ripple frequency is:

(a) 25 Hz

(b) 50 Hz

(c) 100 Hz

(d) 200 Hz

Q18

Hard

A p-n junction diode has a depletion layer of width $0.5 \mu\text{m}$ at zero bias. If a forward bias of 0.3 V is applied, and the built-in potential is 0.7 V, the new depletion width is approximately:

(a) $0.38 \mu\text{m}$

(b) $0.25 \mu\text{m}$

(c) $0.50 \mu\text{m}$

(d) $0.71 \mu\text{m}$

Q19

Medium

The electric flux through a closed surface enclosing a charge q is ϕ . If the charge is doubled and the radius of the surface is halved, the electric flux becomes:

(a) 6×10^{-6}

(b) 2×10^{-6}

(c) 4×10^{-6}

(d) 8×10^{-6}

Q20

Medium

A microscope has an objective of focal length 1 cm and eyepiece of focal length 5 cm. If the tube length is 20 cm, the magnifying power in normal adjustment ($D = 25$ cm) is:

(a) 100

(b) 120

(c) 20

(d) 50

Section B — Numerical Value Questions (Q21 to Q30)

Attempt any 5 questions. +4 for correct, 0 for incorrect. No negative marking.

Q21

Medium

An electric dipole of moment $2 \times 10^{-28} \text{ C}\cdot\text{m}$ is placed in a uniform electric field of 10^5 N/C at an angle of 30° to the field. The torque on the dipole (in $\text{N}\cdot\text{m} \times 10^{-28}$) is _____.

Q22

Easy

Three resistors of 3Ω , 6Ω , and 9Ω are connected in parallel. The equivalent resistance (in Ω , rounded to 2 decimal places) is _____.

Q23

Medium

A solenoid of length 50 cm has 500 turns and carries a current of 2 A. The magnetic field inside the solenoid (in mT, rounded to 2 decimal places) is _____. (Use $\mu_0 = 4\pi \times 10^{-7} \text{ T}\cdot\text{m/A}$)

Q24**Hard**

A rectangular loop of sides 10 cm and 20 cm is placed in a magnetic field that changes uniformly from 0.5 T to 0 T in 0.1 s. The average EMF induced in the loop (in mV) is _____.

Q25**Medium**

A transformer has 1000 turns in the primary and 50 turns in the secondary. If the primary voltage is 220 V AC, the secondary voltage (in V) is _____.

Q26**Hard**

Light of wavelength 500 nm falls on a single slit of width 0.5 mm. The angular width of the central maximum (in degrees, rounded to 2 decimal places) is _____.

Q27**Easy**

The maximum kinetic energy of photoelectrons emitted from a metal surface of work function 2.0 eV when light of wavelength 310 nm falls on it is _____ eV. (Use $hc = 1240 \text{ eV}\cdot\text{nm}$)

Q28**Medium**

The radius of the 2nd Bohr orbit of the hydrogen atom (in $\text{\AA}$) is _____. (Bohr radius $a_0 = 0.529 \text{ \AA}$)

Q29**Hard**

The half-life of a radioactive sample is 20 minutes. The fraction of the sample that remains after 1 hour is $1/x$. The value of x is _____.

Q30

Medium

In a common-emitter transistor amplifier, the current gain $\beta = 50$ and the base current is $20 \mu\text{A}$. The collector current (in mA) is _____.

CHEMISTRY

30 Questions | 100 Marks

Section A — Multiple Choice Questions (Q31 to Q50)

Each question has 4 options. Only ONE is correct. +4 for correct, -1 for incorrect.

Q31

Easy

In a face-centred cubic (FCC) unit cell, the number of atoms per unit cell is:

(a) 1

(b) 2

(c) 4

(d) 6

Q32

Medium

The boiling point elevation of a solution containing 3 g of a non-volatile solute in 100 g of water is 0.156 K. If K_b for water is 0.52 K kg/mol , the molar mass of the solute is:

(a) 50 g/mol

(b) 100 g/mol

(c) 150 g/mol

(d) 200 g/mol

Q33

Medium

The standard EMF of the cell: $\text{Zn} \mid \text{Zn}^{2+} (1\text{M}) \parallel \text{Cu}^{2+} (1\text{M}) \mid \text{Cu}$ is 1.10 V. If the concentration of Cu^{2+} is reduced to 0.01 M (keeping Zn^{2+} at 1 M), the new EMF at 298 K is approximately:

(a) 1.04 V

(b) 1.16 V

(c) 0.98 V

(d) 1.10 V

Q34

Easy

For a first-order reaction with rate constant $k = 0.693 \text{ min}^{-1}$, the half-life is:

(a) 0.5 min

(b) 1.0 min

(c) 2.0 min

(d) 0.693 min

Q35

Medium

Which of the following is an example of a lyophilic colloid?

(a) Gold sol

(b) Fe(OH)_3 sol

(c) Starch solution

(d) As_2S_3 sol

Q36

Medium

In the extraction of aluminium by Hall-Héroult process, the electrolyte used is:

(a) Aqueous solution of $\text{Al}_2(\text{SO}_4)_3$

(b) Molten Al_2O_3 dissolved in cryolite (Na_3AlF_6)

(c) Molten AlCl_3

(d) Al_2O_3 dissolved in conc. H_2SO_4

Q37

Hard

Which of the following p-block elements shows maximum catenation?

(a) Nitrogen

(b) Sulphur

(c) Silicon

(d) Carbon

Q38

Easy

The correct order of the acidic strength of oxoacids of chlorine is:

(a) $\text{HClO} < \text{HClO}_2 < \text{HClO}_3 < \text{HClO}_4$

(b) $\text{HClO}_4 < \text{HClO}_3 < \text{HClO}_2 < \text{HClO}$

(c) $\text{HClO}_2 < \text{HClO} < \text{HClO}_3 < \text{HClO}_4$

(d) $\text{HClO} < \text{HClO}_3 < \text{HClO}_2 < \text{HClO}_4$

Q39

Medium

Which of the following transition metal ions is colourless in aqueous solution?

(a) Cu^{2+}

(b) Fe^{3+}

(c) Zn^{2+}

(d) Cr^{3+}

Q40

Hard

The IUPAC name of $[\text{CoCl}_2(\text{en})_2]^+$ is: (en = ethylenediamine)

(a) Dichloridobis(ethylenediamine)cobalt(III) ion

(b) Bis(ethylenediamine)dichloridocobalt(III) ion

(c) Dichlorobis(ethylenediamine)cobalt(II) ion

(d) Bis(ethylenediamine)dichloridocobalt(II) ion

Q41

Medium

Which of the following reactions is an example of Finkelstein reaction?

(a) $\text{R-Cl} + \text{NaI (acetone)} \rightarrow \text{R-I} + \text{NaCl}$

(b) $\text{R-Cl} + \text{AgF} \rightarrow \text{R-F} + \text{AgCl}$

(c) $\text{R-OH} + \text{HCl} \rightarrow \text{R-Cl} + \text{H}_2\text{O}$

(d) $\text{R-X} + \text{KOH(aq)} \rightarrow \text{R-OH} + \text{KX}$

Q42

Easy

The IUPAC name of $\text{CH}_3\text{CH(OH)CH}_3$ is:

(a) Isopropyl alcohol

(b) Propan-2-ol

(c) Propan-1-ol

(d) 2-Methylethanol

Q43

Medium

Which of the following compounds will give a positive iodoform test?

(a) Pentan-3-one

(b) Pentan-2-one

(c) Benzaldehyde

(d) Benzoic acid

Q44

Hard

Arrange the following in decreasing order of basic strength: (i) $\text{C}_2\text{H}_5\text{NH}_2$, (ii) $\text{C}_6\text{H}_5\text{NH}_2$, (iii) $(\text{C}_2\text{H}_5)_2\text{NH}$, (iv) NH_3

(a) (iii) > (i) > (iv) > (ii)

(b) (i) > (iii) > (iv) > (ii)

(c) (ii) > (i) > (iv) > (iii)

(d) (iv) > (i) > (iii) > (ii)

Q45

Easy

Which of the following is a reducing sugar?

(a) Sucrose

(b) Starch

(c) Maltose

(d) Cellulose

Q46

Medium

Nylon-6,6 is a polymer formed by the condensation of:

(a) Hexamethylenediamine and adipic acid

(b) Caprolactam

(c) Hexamethylenediamine and sebacic acid

(d) Phenol and formaldehyde

Q47

Easy

Which of the following is a broad-spectrum antibiotic?

(a) Penicillin

(b) Chloramphenicol

(c) Aspirin

(d) Paracetamol

Q48

Medium

The coordination number and oxidation state of Cr in $[\text{Cr}(\text{NH}_3)_4\text{Cl}_2]$ are respectively:

(a) 6 and +3

(b) 4 and +2

(c) 6 and +2

(d) 4 and +3

Q49

Hard

In a Schottky defect in NaCl crystal, the number of cation and anion vacancies are:

(a) Unequal, more cation vacancies

(b) Unequal, more anion vacancies

(c) Equal

(d) Zero

Q50

Medium

Williamson synthesis is used to prepare:

(a) Alcohols

(b) Ethers

(c) Aldehydes

(d) Ketones

Section B — Numerical Value Questions (Q51 to Q60)

Attempt any 5 questions. +4 for correct, 0 for incorrect. No negative marking.

Q51

Medium

The packing efficiency of a body-centred cubic (BCC) unit cell is _____ % (rounded to nearest integer).

Q52

Easy

The osmotic pressure of a 0.1 M glucose solution at 27°C is _____ atm. ($R = 0.0821 \text{ L atm/mol K}$, round to 2 decimal places)

Q53

Hard

For the cell reaction: $2\text{Fe}^{3+} + 2\text{I}^{-} \rightleftharpoons 2\text{Fe}^{2+} + \text{I}_2$, $E_{\text{cell}} = 0.236 \text{ V}$ at 298 K. The standard Gibbs free energy change (ΔG°) for the reaction is _____ kJ/mol. ($F = 96500 \text{ C/mol}$, round to 1 decimal place)

Q54**Medium**

A first-order reaction is 75% complete in 60 minutes. The rate constant of the reaction is _____ $\times 10^{-2} \text{ min}^{-1}$ (rounded to 1 decimal place).

Q55**Medium**

The spin-only magnetic moment of $[\text{Fe}(\text{H}_2\text{O})_6]^{2+}$ is _____ BM (rounded to 1 decimal place). [Fe: atomic number 26]

Q56**Easy**

The number of sigma (σ) and pi (π) bonds in $\text{CH}_2=\text{CH}-\text{C}\equiv\text{CH}$ are x and y respectively. The value of $x + y$ is _____.

Q57**Hard**

The conductivity of 0.001 M acetic acid is $5 \times 10^{-5} \text{ S/cm}$. If the molar conductivity at infinite dilution of acetic acid is $390.5 \text{ S cm}^2/\text{mol}$, the degree of dissociation of acetic acid is _____ $\times 10^{-2}$ (rounded to 2 decimal places).

Q58**Medium**

The total number of stereoisomers possible for 2-bromo-3-chlorobutane is _____.

Q59**Easy**

The number of peptide bonds in a tripeptide is _____.

Q60**Medium**

The pH of a 0.01 M HCl solution at 25°C is _____.

MATHEMATICS

30 Questions | 100 Marks

Section A — Multiple Choice Questions (Q61 to Q80)

Each question has 4 options. Only ONE is correct. +4 for correct, -1 for incorrect.

Q61

Easy

Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = x^3$. Then f is:

(a) One-one but not onto

(b) Onto but not one-one

(c) Both one-one and onto (bijective)

(d) Neither one-one nor onto

Q62

Medium

The value of $\sin^{-1}(\sin(7\pi/6))$ is:

(a) $7\pi/6$

(b) $-\pi/6$

(c) $\pi/6$

(d) $5\pi/6$

Q63

Medium

If A is a 3×3 matrix such that $|A| = 5$, then $|\text{adj}(A)|$ is:

(a) 5

(b) 25

(c) 125

(d) 10

Q64

Easy

If $A = \{[2, 3], [1, 4]\}$, then $|A|$ is:

(a) 11**(b)** 5**(c)** -5**(d)** 8**Q65**

Medium

The function $f(x) = |x - 3|$ is:

(a) Continuous and differentiable at $x = 3$ **(b)** Continuous but not differentiable at $x = 3$ **(c)** Differentiable but not continuous at $x = 3$ **(d)** Neither continuous nor differentiable at $x = 3$ **Q66**

Hard

The function $f(x) = x^3 - 12x + 5$ is increasing in the interval:

(a) $(-\infty, \infty)$ **(b)** $(-2, 2)$ **(c)** $(-\infty, \infty)$ **(d)** $(0, \infty)$ **Q67**

Medium

The value of $\int_0^{\pi/2} \sin^2 x \, dx$ is:

(a) $\pi/2$ **(b)** $\pi/4$ **(c)** π **(d)** 1

Q68**Hard**

The area bounded by $y = x^2$ and $y = x$ is:

(a) $1/6$ sq. units**(b)** $1/3$ sq. units**(c)** $1/2$ sq. units**(d)** 1 sq. unit**Q69****Medium**

The general solution of the differential equation $dy/dx = y/x$ is:

(a) $y = Cx$ **(b)** $y = Cx^2$ **(c)** $y^2 = Cx$ **(d)** $y = C/x$ **Q70****Easy**

If $a = 2e + 3\sqrt{5} + b\sqrt{3}$ and $b = e\sqrt{12} + \sqrt{5} + 2b\sqrt{3}$, then $a \cdot b$ is:

(a) 1**(b)** $\sqrt{12}$ **(c)** 3**(d)** 7**Q71****Medium**

The angle between the lines whose direction ratios are $(1, 1, 2)$ and $(\sqrt{3}, \sqrt{12}, \sqrt{12})$ is:

(a) $\pi/6$ **(b)** $\pi/4$ **(c)** $\pi/3$ **(d)** $\pi/2$

Q72**Hard**

The corner point of the feasible region determined by the constraints $x + y \leq 4$, $2x + y \leq 6$, $x \geq 0$, $y \geq 0$ that maximizes $Z = 3x + 5y$ is:

(a) (0, 4)**(b)** (2, 2)**(c)** (3, 0)**(d)** (0, 0)**Q73****Easy**

If $P(A) = 0.6$, $P(B) = 0.4$ and $P(A \cap B) = 0.2$, then $P(A | B)$ is:

(a) 0.5**(b)** 0.3**(c)** 0.8**(d)** 0.33**Q74****Medium**

The value of $\int e^x(\sin x + \cos x) dx$ is:

(a) $e^x \sin x + C$ **(b)** $e^x \cos x + C$ **(c)** $e^x (\sin x + \cos x) + C$ **(d)** $e^x (\sin x - \cos x) + C$ **Q75****Medium**

If $\vec{a} \cdot \vec{b} = \vec{a} \cdot \vec{c}$ and $\vec{a} \neq \vec{0}$, then:

(a) $\vec{b} = \vec{c}$ always**(b)** $\vec{b} - \vec{c}$ is parallel to $\vec{a}$ **(c)** $\vec{b} - \vec{c}$ is perpendicular to $\vec{a}$ **(d)** $\vec{b} + \vec{c}$ is parallel to $\vec{a}$

Q76**Hard**

The shortest distance between the lines $\frac{x-1}{2} = \frac{y+1}{3} = \frac{z}{1}$ and $\frac{x+1}{5} = \frac{y-2}{1} = \frac{z}{0}$ is:

(a) $10\sqrt{59}$ **(b)** $10\sqrt{29}$ **(c)** $5\sqrt{59}$ **(d)** $15\sqrt{59}$ **Q77****Easy**

If A is a square matrix of order 3 and $|A| = \sqrt{22}$, then $|3A|$ is:

(a) $\sqrt{22}$ **(b)** $\sqrt{2254}$ **(c)** $\sqrt{2218}$ **(d)** 54**Q78****Medium**

The derivative of $\tan^{-1}\left(\frac{\sin x}{1 + \cos x}\right)$ with respect to x is:

(a) 1**(b)** $\frac{1}{2}$ **(c)** $\sqrt{21/2}$ **(d)** 2**Q79****Medium**

The order and degree of the differential equation $\frac{d^2y}{dx^2} + \left(\frac{dy}{dx}\right)^3 + y = 0$ are respectively:

(a) 2 and 1**(b)** 2 and 3**(c)** 1 and 3**(d)** 3 and 2

Q80

Easy

A fair coin is tossed 3 times. The probability of getting at least 2 heads is:

(a) $3/8$ **(b)** $1/2$ **(c)** $1/4$ **(d)** $7/8$

Section B — Numerical Value Questions (Q81 to Q90)

Attempt any 5 questions. +4 for correct, 0 for incorrect. No negative marking.

Q81

Easy

If $f(x) = x^2 + 2x + 1$, then $f'(3) = \underline{\hspace{2cm}}$.

Q82

Medium

The value of $\int_0^1 x^2 e^x dx$ is $(a \times 10^{-b})$, where a and b are integers. The value of $a + b$ is _____. [Hint: use integration by parts]

Q83

Medium

The area enclosed between $y = x^2$ and $y = 2x$ in the first quadrant is _____ (in sq. units, give as a fraction p/q where $\gcd(p,q)=1$, enter $p+q$).

Q84

Hard

The number of solutions of the equation $2\sin^9 x = \cos^9(1 - 2x^2)$ for $x \in [0, 1]$ is _____.

Q85

Medium

If $A = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$, then the trace of A (i.e., sum of diagonal elements of A) is _____.

Q86

Easy

The maximum value of $Z = 4x + 3y$ subject to constraints $x + y \leq 10$, $x \geq 0$, $y \geq 0$ is _____.

Q87

Hard

The variance of the first 10 natural numbers is _____. (Give answer as a fraction in simplest form p/q , enter $p+q$)

Q88

Medium

The distance of the point $(1, 2, 3)$ from the plane $x + 2y + 3z + 10 = 0$ is $k/\sqrt{14}$. The value of k is _____.

Q89

Medium

If $|\vec{a}| = 3$, $|\vec{b}| = 4$, and the angle between $\vec{a}$ and $\vec{b}$ is 60° , then $|\vec{a} \times \vec{b}|$ is _____ (give as integer times $\sqrt{3}$, enter the integer).

Q90

Hard

The integrating factor of the differential equation $x(dy/dx) + 2y = x^2$ is x^n . The value of n is _____.

Answer Key & Solutions

25bc



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