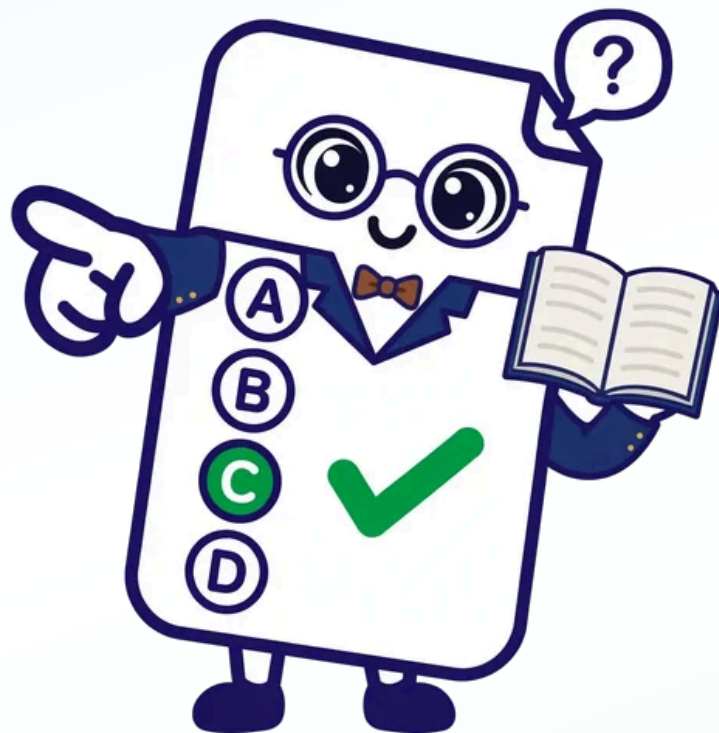




TestUstad.com

Lecturer Physics Test Preparation Book 2026

A full model paper in the real Lecturer Physics Test pattern, with answer key



100 MCQs

Real Lecturer Physics Test subject split

Answer key + online explanations

How to use this book

1. Sit each model paper in one go, in 120 minutes, with a pen and the answer sheet of your choice.
2. Mark yourself with the answer key at the back.
3. Every answer in the key is a link. Tap it to read why that option is right on TestUstad, free.

Want this paper timed and graded for you?

Practise every Lecturer Physics Test subject free, chapter by chapter, at testustad.com/exams/lecturer-physics

What is in this book

100 MCQs across one paper, each drawn in the same subject split as the real Lecturer Physics Test paper:

- Physics: 80 MCQs per paper
- English: 5 MCQs per paper
- General Knowledge: 5 MCQs per paper
- Pakistan Studies: 4 MCQs per paper
- Pakistan Current Affairs: 3 MCQs per paper
- Islamic Studies: 2 MCQs per paper
- Computer Science and IT: 1 MCQs per paper



MODEL PAPER 1 OF 1

Lecturer Physics Test

100 MCQs · 120 minutes · answer key at the back



Physics

80 MCQs

1. If the moveable mirror is displaced through distance of 0.05 mm, 200 fringes are observed shifted. The wavelength of light used is:

- (A) 5×100
- (B) $5 \times 10 \text{ m}$
- (C) 500 nm
- (D) 50 mm

2. If the resultant of two vectors each of magnitude F is also of magnitude F , the angle between them is:

- (A) 60 degrees
- (B) 90 degrees
- (C) 120 degrees
- (D) 130 degrees

3. The internal energy of a fixed case of an ideal gas depends on:

- (A) Pressure, but not volume or temperature
- (B) Temperature, but not pressure or volume
- (C) Volume, but not pressure or temperature
- (D) Pressure and temperature, but not volume

4. If an object moves with speed of light its mass will be.

- (A) Zero
- (B) Maximum
- (C) Infinity
- (D) Minimum

5. A body of mass m is projected from the Earth's surface. At the point of launch, the acceleration of free fall is g and the radius of the Earth is R . To escape from the gravitational field of the Earth, the speed of the body must be at least:

- (A) $\sqrt{gR}$
- (B) mgR
- (C) $\sqrt{2gR}$
- (D) $mg/2R$

6. The device which increases or decreases the emf is called:

- (A) AC generator
- (B) Motor
- (C) Transformer
- (D) DC generator

7. The conversion of alternating current into direct current is called

- (A) Amplification
- (B) Rectification
- (C) Magnification
- (D) Resolution

8. The net magnetic field created by the electrons within an atom is due to the field created by their _ motion.

- (A) Orbital
- (B) Spin
- (C) Orbital & spin
- (D) Orbital X spin

9. A circular disc of mass M and radius R is rotating about it's with uniform speed v. Its kinetics energy is:

- (A) Mv^2
- (B) $\frac{1}{2} Mv^2$
- (C) $\frac{1}{4} Mv^2$
- (D) $\frac{1}{8} Mv^2$

10. The correct expression for the coulomb's force is:

- (A) $F = \frac{1}{4\pi\epsilon_0} \times \frac{q_1 q_2}{r^2} \times r$
- (B) $F = \frac{1}{4\pi\epsilon_0} \times \frac{q_1 q_2}{r^2} \times r$
- (C) $F = \frac{1}{4\pi\epsilon} \times \frac{q_1 q_2}{r^2} \times r$
- (D) $F = \frac{1}{4\pi\epsilon} \times \frac{q_1 q_2}{r^2} \times r$

11. Which of the following pair of angles have same rang for a projectile?

- (A) 100 and 200
- (B) 75° and 150
- (C) 450 and 600
- (D) 00 and 300

12. A wire of length 2m is attached with mass of 5kg vertically, tensile strain of wire is 0.3×10^{-3} , the extension in wire is:

- (A) 1.5mm
- (B) 2mm
- (C) 0.15mm
- (D) 0.6mm

13. The best shield against X-rays to absorb it is

- (A) Lead
- (B) Steel
- (C) Iron
- (D) Copper

14. In RLC series circuit when the frequency of AC source is very low, the circuit an:

- (A) resistive circuit
- (B) capacitive circuit
- (C) inductive circuit
- (D) resonant circuit

15. Two blocks "A" and "B" having masses 3kg and 4kg are raised to the same height from earth surface. The ratio of gravitational potential of "A" to that of "B" is

- (A) 3:4
- (B) 4:3
- (C) 1:1
- (D) None

16. Ohm's law is valid only for

- (A) Thermistor
- (B) Bulb filament
- (C) Metals
- (D) Semiconductors

17. Stokes' Law for steady motion in a fluid of infinite extent is given by:

- (A) $F = 6\pi\eta rv$
- (B) $F = (4/3)\pi r^3 \rho g$
- (C) $F = 6\pi\eta r^2 p$
- (D) $F = 2gr^2\rho/9\eta$

18. voltsecond is equal to:

- (A) gauss
- (B) weber
- (C) henry
- (D) tesla

19. Five energies are listed. 5 kJ, 5 mJ, 5 nJ. Starting with the smallest first, what is the order of increasing magnitude of these energies?

- (A) 5 nJ → 5 mJ → 5 kJ → 5 MJ
- (B) 5 nJ → 5 kJ → 5 MJ → 5 mJ
- (C) 5 kJ → 5 mJ → 5 MJ → 5 nJ
- (D) 5 mJ → 5 nJ → 5 kJ → 5 MJ

20. A source 'Y' of unknown frequency produces 4 beats with a source of 240 Hz and 8 beats with a sound of 252 Hz. Frequency of the source 'Y' is:

- (A) 244 Hz
- (B) 236 Hz
- (C) 248 Hz
- (D) 246 Hz

21. Colors of thin film result from

- (A) Dispersion
- (B) Interference of light
- (C) Absorption of light
- (D) Scattering of light

22. Two concurrent forces have a maximum resultant of 45N and minimum resultant of 5N. What is the magnitude of each of these?

- (A) 0.45N
- (B) 5N, 9N
- (C) 20N, 25N
- (D) 0N, 45N

23. Which one is not an irreversible process?

- (A) Slow compression of a gas into a cylinder
- (B) Changes due to friction
- (C) Explosion
- (D) Dissipation of energy

24. Raleigh Jean predicted behavior of black body radiations, this predictions came to conclusion that:

- (A) Explained with quantum theory
- (B) Explained well by mathematical treatment
- (C) Failed to explain ultraviolet region
- (D) Used Einstein's theory of relativity

25. Satellites revolve around the earth in a circular orbit. What is the relationship between the radius of their orbits and their speeds?

- (A) $V \propto r^2$
- (B) $V \propto r$
- (C) $V \propto 1/r$
- (D) $V \propto 1/r^2$

26. In a step-down transformer, the output current _.

- (A) Is reduced
- (B) Is increased
- (C) Remains same
- (D) None of these

27. In transistor, the emitter current, is 3.5A and collector current, is 2.35A. What will be the base current?

- (A) 5.85A
- (B) 1.15A
- (C) 1.48A
- (D) 0.67A

28. The energy of the electron in the excited state $n=3$ in hydrogen atom is:

- (A) -13.6eV
- (B) -1.51eV
- (C) 3.40eV
- (D) 0.54eV

29. If we double the moment arm, the value of torque becomes:

- (A) Half
- (B) Three-times
- (C) Two-times
- (D) Four-times

30. SI unit of electric flux is:

- (A) NmC^{-1}
- (B) Nm^2C^{-2}
- (C) Nm^2C^{-1}
- (D) Nm^2C^{-2}

31. If a force of 12 N acts on a car and changes its momentum from 36 kgm/sec to 60 kgm/sec, the time during which this change occurs will be

- (A) 24 sec
- (B) 2 sec
- (C) 12 sec
- (D) 8 sec

32. If both the length and radius of the rod are doubled, then modulus of elasticity will:

- (A) increase
- (B) Decrease
- (C) Remains the same
- (D) Be doubled

33. The half-life of the given sample is 44 years. The sample will reduce to 50% of the original value after:

- (A) 22 years
- (B) 88 years
- (C) 11 years
- (D) 44 years

34. Tuning of the radio is the best example of electrical_

- (A) Resonance
- (B) Resistance.
- (C) Current.
- (D) None of these.

35. A particle of mass m at rest is acted upon by a force P for time t . Its kinetic energy is:

- (A) $(P^2 t^2)/m$
- (B) $(P^2 t^2)/2m$
- (C) $(P^2 t^2)/3m$
- (D) $(P^2 t^2)/4m$

36. Three equivalent resistors connected in parallel have equivalent resistance $R/3$. When they are connected in series then the equivalent resistance is:

- (A) $3R$
- (B) $R/3$
- (C) R
- (D) $2R$

37. A fluid is flowing through a tube. To undergo transition from laminar to turbulent flow its velocity must be:

- (A) Slightly less than critical velocity
- (B) Equal to critical velocity
- (C) Greater than critical velocity
- (D) Increasing gradually but less than critical velocity

38. The formula $\Phi = B.A$ represents:

- (A) Electric flux
- (B) Magnetic flux
- (C) Electric flux density
- (D) Gravitational flux

39. Which experimental technique reduces the systematic error of the quantity being investigated?

- (A) Adjusting an ammeter to remove its zero error before measuring a current
- (B) Measuring several internodal distances on a standing wave to find the mean internodal distance
- (C) Measuring the diameter of a wire repeatedly and calculating the average
- (D) Timing a large number of oscillations to find a period

40. What will be the effect on the speed of transverse waves on a string if the tension in the string remains constant but the diameter of the string doubles?

- (A) Remains constant
- (B) Becomes half
- (C) Becomes double
- (D) Becomes four times

41. The ratio of the _ is called magnification.

- (A) Image size to object size.
- (B) Object size to image size.
- (C) Eyepiece size to object size.
- (D) None of these.

42. If each vector have unit magnitude than A. A is:

- ☐ A Zero
- ☐ B One
- ☐ C Negative One
- ☐ D Two

43. Isobaric processes occur at:

- ☐ A Constant temperature
- ☐ B Constant pressure
- ☐ C Constant volume
- ☐ D Constant temperature and constant pressure

44. Photon A has twice the energy of photon B. What is the ratio of the momentum of A to that of B?

- ☐ A 4:1
- ☐ B 2:1
- ☐ C 1:1
- ☐ D 1:2

45. The SI unit of gravitational potential is :

- ☐ A J/kg
- ☐ B J/(m kg)
- ☐ C J/(m s)
- ☐ D Js

46. A loop of 5 turns of wire is placed in uniform magnetic field of 0.5T, then area of loop shrinks at a constant rate of $10\text{m}^2/\text{s}$, the emf induced is:

- ☐ A 2.5V
- ☐ B 25V
- ☐ C 250V
- ☐ D 0.25V

47. An n-type semiconductor is made by doping silicon crystal with _.

- ☐ A Indium
- ☐ B Aluminium
- ☐ C Arsenic
- ☐ D Both B and C

48. The atom is excited to an energy level E_i from its ground-state energy level E_o , the wavelength of the radiation emitted is:

- ☐ A Option A
- ☐ B Option B
- ☐ C Option C
- ☐ D Option D

49. The centripetal force acting on a body rotating in a circle of radius r' is F' . If the body moves in a circle of radius half of the initial value keeping other quantities constant, then the percentage change in the centripetal force is:

- ☐ A 300%
- ☐ B 100%
- ☐ C 400%
- ☐ D 200%

50. Four charges $+Q, -Q, +Q, -Q$ are placed at the corners of a square taken in order. At the centre of the square.

- (A) $E=0, V=0$
- (B) $E=0, V \neq 0$
- (C) $E \neq 0, V=0$
- (D) $E \neq 0, V \neq 0$

51. When a car moves with constant acceleration, the velocity-time graph is a:

- (A) Straight line
- (B) Parabola
- (C) Horizontal line
- (D) Exponential curve

52. The temperature at which the resistance of a conductor approaches zero is called

- (A) Normal temperature
- (B) Critical temperature
- (C) Absolute temperature
- (D) Curie temperature

53. Cadmium rods are used in a nuclear reactor for :

- (A) Slowing down fast neutrons
- (B) Speeding up slow neutrons
- (C) Absorbing fast neutrons
- (D) Regulating the power level of the reactor

54. In simple A.C capacitive circuit:

- (A) The voltage leads current by 90°
- (B) The voltage leads current by 180°
- (C) The current leads voltage by 90°
- (D) The current and voltage are in phase

55. If ' V ' is applied potential difference across a resistance ' R ', then loss in potential energy per unit time is:

- (A) VI
- (B) I^2R
- (C) V^2/R
- (D) All of the above

56. The current measuring part of the Avometer consists of number of low resistances connected:

- (A) At an angle of 180° with the galvanometer
- (B) Parallel with the galvanometer
- (C) At an angle of 45° with the galvanometer
- (D) Perpendicular to the galvanometer

57. The pressure on the other sides and everywhere inside the vessel will be according to the:

- (A) Pascal's Law
- (B) Hooke's Law
- (C) Boyle's Law
- (D) Charles's Law

58. A proton is projected with a uniform velocity 'v' along the axis of a current carrying solenoid.

- (A) The proton will be accelerated along the axis.
- (B) The proton path will be circular about the axis.
- (C) The proton moves along a helical path.
- (D) The proton will continue to move with velocity 'v' along the axis.

59. Which of the following is closest to a yard:

- (A) 0.01 m
- (B) 0.1 m
- (C) 1 m
- (D) 100 m

60. The number of loops in stationary waves depends upon:

- (A) velocity of waves
- (B) wavelength of waves
- (C) nature of the medium
- (D) frequency of waves

61. The powers of the objective and eye piece of telescope are 0.5 diopter and 10 diopter respectively. The magnifying power of telescope is:

- (A) 0.5
- (B) 10
- (C) 20
- (D) 0.05

62. The direction of torque is:

- (A) Parallel to the plane of F and γ
- (B) Perpendicular to the plane of F and γ
- (C) Anti parallel to the plane of F and γ
- (D) Is the same as that of the plane of F and γ

63. Lower fixed point of Celcius scale:

- (A) 32°C
- (B) 100°C
- (C) 273°C
- (D) 0°C

64. In He - Ne Iaser, the active material is:

- (A) He only
- (B) Ne only
- (C) Both He and Ne
- (D) None of the above

65. A satellite is orbiting close to the surface of the earth, its speed is

- (A) $\sqrt{2gR}$
- (B) $\sqrt{Rg}$
- (C) $Rg/2$
- (D) Rg

66. A coil of 150 loops is pulled in 0.06s from poles of the magnet, which decreases the magnetic flux linked with the coil from 6×10^{-4} Wb to 2×10^{-4} Wb. The average emf induced in the coil is:

- (A) 1 V
- (B) 1.5 V
- (C) 0.1 V
- (D) 0.15 V

67. The color of light emitted by light emitting diode depends upon:

- (A) forward voltage
- (B) reverse current
- (C) forward current
- (D) type of semiconductor

68. Which of the following graphs represents the output of an X-ray?

- (A) Option A
- (B) Option B
- (C) Option C
- (D) Option D

69. One hollow and one solid cylinder of the same radius are rolling down an inclined plane. Which of them will reach the end of the plane first?

- (A) Solid cylinder
- (B) Hollow cylinder
- (C) Both simultaneously
- (D) Depends upon the behavior among them

70. Electric field strength at position vector $r=(4i+3j)m$ caused by point charge $q=5\mu C$ placed at origin is:

- (A) $1440i+1080jV/m$
- (B) $1240i+1280jN/C$
- (C) $1440i+1080jN/C$
- (D) $1240i+1080jN/C$

71. Arshad is driving down 7th street, he drives 150m in 18s. Assume he does not speed up or slow down, what is his speed?

- (A) 0.38m/s
- (B) 126m/s
- (C) 8.33m/s
- (D) 58.33m/s

72. A spring obeying Hooke's law has an unstretched length of 50 mm and a spring constant of 400 Nm⁻¹. What is the tension in the spring when its overall length is 70mm?

- (A) 8.0N
- (B) 28N
- (C) 160N
- (D) 400N

73. The SI unit of absorbed dose 'D' i.e. radiation effect is Gray and one Gray is equal to:

- (A) kJ / mol
- (B) J / mol
- (C) kg / J
- (D) J / kg

74. The peak value of alternating current is $5\sqrt{2}$ A. The mean square value of current will be:

- (A) 5A
- (B) 2.5A
- (C) $5\sqrt{2}$ A
- (D) 52 A

75. Which of the following is a pair of conservative and non conservative forces?

- ☐ A Gravitational forces and elastic forces
- ☐ B Frictional force and propulsion of a motor
- ☐ C electric force and tensioning string
- ☐ D propulsion force of rocket and air resistance

76. The unit of conductance is

- ☐ A Ohm
- ☐ B Ohm-meter-1
- ☐ C Ohm - meter
- ☐ D mho

77. When fluid is incompressible, the quantity is constant.

- ☐ A Mass
- ☐ B Density
- ☐ C Pressure
- ☐ D Force

78. Magnetic flux is maximum when angle between magnetic field and vector area is

- ☐ A 00
- ☐ B 900
- ☐ C All of these
- ☐ D None of these

79. MLT are are the dimersions of

- ☐ A strain
- ☐ B refractive index
- ☐ C magnification
- ☐ D All of these

80. When longitudinal waves propagate through a medium, the particles of the medium:

- ☐ A Vibrate parallel to the direction of propagation of waves
- ☐ B Vibrate perpendicular in to the direction of propagation of waves
- ☐ C Do not move at all
- ☐ D Vibrate at an angle of 360° to the direction of waves



English

5 MCQs

81. In each of the following question, four alternative sentences are given. Choose the CORRECT one and fill the Circle corresponding to that letter in the MCQ Response Form.

- ☐ A E-mail is a relatively new mean of communication.
- ☐ B E-mail is a relatively new means of communication.
- ☐ C E-mail is a relatively new mean to communication.
- ☐ D E-mail is a relatively new means to communication.

82. She is as busy as a bee. Which poeti device has been used in this line?

- ☐ A Metaphor
- ☐ B Personification
- ☐ C Simile
- ☐ D Allusion

83. In each of the following question, four alternative meanings of a word are given. You have to select the nearest correct meaning of the given word and fill the appropriate. Enmeshed

- (A) Sojourn
- (B) Entangled
- (C) Gallows
- (D) Cascade

84. He was _ in bed all day yesterday.

- (A) Laying
- (B) Lying
- (C) Lieing
- (D) Lied

85. In each of the following question, four alternative sentences are given. Choose the CORRECT one and fill the Circle corresponding to that letter in the MCQ Responses Form.

- (A) As she said the computer was programmed by Mona.
- (B) Just like she said the computer was programmed by Mona.
- (C) As like she said the computer was programmed by Mona.
- (D) Just like she had she said the computer was programmed by Mona.



General Knowledge

5 MCQs

86. GMT stands for?

- (A) Global Match Time
- (B) Greenwich Mean Time
- (C) Global Must Time
- (D) Green Match Time

87. When was west Germany admitted as a member of NATO?

- (A) 9 May, 1954
- (B) 9 May, 1955
- (C) 9 May, 1956
- (D) 9 May, 1960

88. The Sepahsalar Mosque is located in _____?

- (A) Dhaka, Bangladesh
- (B) Istanbul, Turkey
- (C) Toronto, Canada
- (D) Tehran, Iran

89. The first Blackberry smartphone was released in year _____?

- (A) 1998
- (B) 1999
- (C) 2000
- (D) 2002

90. First Asma Jahangir scholarship given to whom _____?

- (A) Sana Gul
- (B) Fatima
- (C) Ayesha khan
- (D) Kalsoom hafsa

**Pakistan Studies**

4 MCQs

91. The Ghaggar-Hakra river is located in India and _____?

- ☐ A Bangladesh
- ☐ B Nepal
- ☐ C Pakistan
- ☐ D Afghanistan

92. The All-Indian Muslim League observed 'Day of Deliverance' after the resignation of the All-India Congress Ministers. On what date was it observed _____?

- ☐ A 22 October 1938
- ☐ B 22 December 1938
- ☐ C 22 October 1939
- ☐ D 22 December 1939

93. The 1962 Constitution of Pakistan was passed during the regime of?

- ☐ A Sikandar Mirza
- ☐ B Ayoub Khan
- ☐ C Yahya Khan
- ☐ D Ch. Muhammad Ali

94. Ishratul Ebad has longest tenure as a Governor of any province of Pakistan?

- ☐ A 12 years (2001-2012)
- ☐ B 16 Years (2001-2016)
- ☐ C 14 Years (2002-2016)
- ☐ D 10 Years (2006-2016)

**Pakistan Current Affairs**

3 MCQs

95. What amount of debt payments will be rescheduled by Pakistan in 2020 under the Debt Service Suspension Initiative?

- ☐ A \$2.11 billion
- ☐ B \$2.41 billion
- ☐ C \$3.21 billion
- ☐ D \$3.41 billion

96. China to solarise 10000 household's in which province of Pakistan?

- ☐ A Balochistan
- ☐ B Punjab
- ☐ C Sindh
- ☐ D KPK

97. Who is the President of The National Bank of Pakistan?

- ☐ A Saeed Ahmad
- ☐ B Arif Usmani
- ☐ C Rehmat Ali Hasnie
- ☐ D Shahid Hafeez Kardar

**Islamic Studies**

2 MCQs

98. _____ takes out souls of life bearing creatures.

- ☐ A Jibrael (A.S)
- ☐ B Mikael (A.S)
- ☐ C Israfeel (A.S)
- ☐ D Izraeel (A.S)

99. The Jewish tribe of _____ was expelled from Madina in 4th AH.

- ☐ A Banu Qurezah
- ☐ B Banu Nuzair
- ☐ C Banu Qinqah
- ☐ D Banu Najjar



Computer Science and IT

1 MCQs

100. Primary memory is used to store:

- ☐ A Data
- ☐ B Instructions
- ☐ C operating system
- ☐ D All of these

Answer key

Tap any answer to open its full explanation on TestUstad.

Model Paper 1

1	C	2	C	3	B	4	C	5	A	6	C	7	B	8	B	9	C	10	B
11	B	12	D	13	A	14	B	15	C	16	C	17	A	18	C	19	A	20	A
21	B	22	C	23	A	24	C	25	D	26	B	27	B	28	B	29	C	30	C
31	B	32	C	33	D	34	A	35	B	36	A	37	C	38	B	39	A	40	B
41	A	42	B	43	B	44	B	45	A	46	B	47	C	48	C	49	B	50	B
51	A	52	B	53	C	54	C	55	D	56	B	57	A	58	D	59	C	60	D
61	C	62	B	63	D	64	C	65	B	66	A	67	D	68	A	69	A	70	C
71	C	72	A	73	D	74	A	75	A	76	D	77	B	78	A	79	D	80	A
81	B	82	C	83	B	84	B	85	A	86	B	87	B	88	D	89	B	90	A
91	C	92	D	93	B	94	C	95	B	96	A	97	C	98	D	99	B	100	D



Solved these? Continue free.

Published MCQs

138,698+

Exams covered

141+

Subjects covered

56+

Answers explained

100%

Explained MCQs, solved past papers, and free quizzes at testustad.com.

- ✓ Free Lecturer Physics Test practice, chapter by chapter, every answer explained
- ✓ Solved Lecturer Physics Test past papers and the most important topics
- ✓ Free quizzes, with your score marked instantly
- ✓ No sign-up needed to practise

Continue Lecturer Physics Test preparation free

testustad.com/exams/lecturer-physics

Want a day-by-day study plan, timed full-length mocks, and weak-topic analytics? That's in the paid packs.