

# Physics Quiz MCQ PDF

1. Who among the following is credited for the Corpuscular theory of light?  
(A) James Clerk Maxwell  
(B) Lssac Newton  
(C) Christian Hyugens  
(D) Albert Einstein
2. An Electric generator is based on which of the following scientific principles?  
(A) Newton's Law of Motion  
(B) Super Conductivity  
(C) Faraday's law of Electromagnetic Induction  
(D) Laws of Thermodynamics
3. What is the range of masses involved in the study of Physics?  
(A) 10-30 kg to 1055kg  
(B) 10-20 kg to 1051kg  
(C) 10-40 kg to 1056kg  
(D) 10-50 kg to 1057
4. Who among the following is credited for the discovery of 'Expanding Universe'?  
(A) Niels Bohr  
(B) S Chandra Shekhar  
(C) Edwin Hubble  
(D) C.V Raman
5. The value of coefficient of limiting friction does not depend on which of the following?  
(A) Material of the surfaces in contact  
(B) Total area of the surfaces in contact  
(C) Nature of the surfaces in contact  
(D) None of these
6. What is the dot product of two perpendicular vectors?  
(A) 3  
(B) 1  
(C) 2  
(D) 0
7. 1 kilogram force produces how much acceleration in a body of mass 1 kg?  
(A) 9.8 ms<sup>-2</sup>

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- (B) 9.7 ms<sup>-1</sup>
- (C) 9.6 ms<sup>-0</sup>
- (D) 9.5 ms<sup>-3</sup>

8. The work done in moving a body over a smooth inclined plane does not depend on which of the following?

- (A) Height of the inclined plane
- (B) Slope of the inclined plane
- (C) Mass of the body
- (D) All of the above

9. What should be the angle between force and displacement for maximum work to be done?

- (A) 100°
- (B) 20°
- (C) 0°
- (D) 180°

10. Which of the following is/are correct about Kinetic energy?

- (A) Kinetic energy is independent of frame of reference
- (B) Kinetic energy can be positive
- (C) Kinetic energy can be negative
- (D) None of the above

11. The working principle of washing machine is?

- (A) Diffusion
- (B) Dialysis
- (C) A reverse osmosis
- (D) None of these

12. Loudness of sound depends upon whose of the sound wave?

- (A) Wavelength
- (B) Pitch
- (C) Frequency
- (D) Amplitude

13. Which of the following is not a vector quantity?

- (A) Velocity
- (B) Speed
- (C) Displacement
- (D) All of the above

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14. An air bubble in water will act as?

- (A) Concave lens
- (B) Convex lens
- (C) Both A & B
- (D) None of these

15. Which of the following is used to measure gravity of milk?

- (A) Testmeter
- (B) Odometer
- (C) Elaemeter
- (D) Lactometer

16. The unit of Plank's constant is?

- (A) JS
- (B) JS<sup>1</sup>
- (C) JS<sup>2</sup>
- (D) JS<sup>3</sup>

17. Which of the following is not the unit of time?

- (A) Leap year
- (B) Solar day
- (C) Parallactic second
- (D) Marco second

18. Sound of flash lightning is called?

- (A) Bloating
- (B) Thunder
- (C) Cloud clash
- (D) None of these

19. Diode is used for?

- (A) Modulation
- (B) Amplification
- (C) Demodulation
- (D) Purification

20. Visible spectrum of wavelength is?

- (A) 3900A° – 7600A°
- (B) 4900A° – 7300A°
- (C) 3500A° – 7100A°
- (D) 3100A° – 7610A°

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21. Why the needle of iron swims on water surface when it is kept gently?  
(A) It will remain under the water when it will displace more water than its weight  
(B) The density of needle is less than of water  
(C) Due to surface tension  
(D) Due to its shape
22. Which among the following types of coal produces most heat per unit?  
(A) Coal  
(B) Lignite  
(C) Anthracite  
(D) Pit
23. The dimension of which of the following is the same as that of impulse?  
(A) Volume  
(B) Momentum  
(C) Torque  
(D) Change in the rate of momentum
24. Who among the following developed the technology of underground nuclear explosion?  
(A) Dr. Horn J. Bhabha  
(B) Dr. Vikram Sarabhai  
(C) Dr. Raja Ramanna  
(D) Dr. P.K. Lyengar
25. What is the found in frequency modulation?  
(A) Fixed frequency  
(B) Fixed dimension  
(C) Change in frequency and dimension  
(D) Change in dimension only
26. Diode is used for which of the following?  
(A) Modulation  
(B) Oscillation  
(C) Amplification  
(D) Purification
27. To communicate with artificial satellites which waves is used?  
(A) Microwaves  
(B) Radio waves

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- (C) Amplitude modulation waves
- (D) Frequency of 101 series

28. If the diameter of the capillary is doubled, water will rise?

- (A) Two times
- (B) No change
- (C) Four times
- (D) Half

29. When the speed of car is doubled then what will be the braking force of the car to stop it in the same distance?

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

30. What is the fundamental quantity?

- (A) Volume
- (B) Time
- (C) Velocity
- (D) Force

31. The mass of a star is two times the mass of the Sun. How it will come to an end?

- (A) Neutron Star
- (B) Black hole
- (C) White dwarf
- (D) Red giant

32. Rain drops fall from great height. Which among the following statements is true regarding it?

- (A) They fall with that ultimate velocity which are different for different droplets
- (B) They fall with same droplets
- (C) Their velocity increases and they fall with different velocity on the earth
- (D) Their velocity increases and they fall with same velocity of the earth

33. On which of the following techniques photo state machine works?

- (A) Magnetic imager making
- (B) Thermal image making
- (C) Electrostatic image making
- (D) Electromagnetic image making

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34. One kilowatt hour is equal?  
(A) 6 mega joule  
(B) 8 mega joule  
(C) 2 mega joule  
(D) 0 mega joule
35. What is the minimum escape velocity of rocket to be launched into space?  
(A) 5 km sec.  
(B) 6 km sec.  
(C) 11 km sec.  
(D) 15 km sec.
36. Which of the following statements is true when we see rainbow?  
(A) We face sun and raindrops  
(B) The sun remains behind us and we face raindrops  
(C) In light rainfall we face sun  
(D) The sky remains clear and the sun is at lower position in the say
37. The splitting of different colors of light in a prism is?  
(A) Reflection of light  
(B) Dispersion of light  
(C) Diffraction of light  
(D) Refraction of light
38. A boat will submerge when it displaces water equal to its own?  
(A) Volume  
(B) Weight  
(C) Surface area  
(D) Density
39. Two waves each of amplitude 5 mm and frequency 10 Hz are travelling in opposite direction with a speed of 20 mms. The distance in mm between adjacent nodes is?  
(A) 0  
(B) 2  
(C) 5  
(D) 1
40. The snow on the mountains does not melt all at once when it is heated by the sun because?

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- (A) It becomes very hard
- (B) It reflects most of the heat from sun
- (C) It has a low specific heat capacity
- (D) It has a high latent heat of fusion

41. A person standing on a railway platform listens to the whistles of arriving and departing trains. The whistle heard is?

- (A) Of higher pitch when train departs
- (B) Of higher pitch when train arrive
- (C) The same in both cases in all respect
- (D) None of the above

42. Holography is a technique of?

- (A) Recording a permanent three dimensional multicolor photograph
- (B) Recording a permanent shape two dimensional black and white or multicolor photograph
- (C) Recording a permanent shape three dimensional black and white
- (D) Recording a permanent shape three dimensional photograph of a given single color or a multicolor

43. An ice block with a piece of land embedded in it floats in water. If ice melts the water level?

- (A) Falls
- (B) Rises
- (C) Falls first and then rises
- (D) Remains same

44. The velocity of heat radiation in vacuum is?

- (A) Equal to that of light
- (B) Greater than that of light
- (C) Less than of that of light
- (D) All of the above

45. The plastic material commonly used for making gear wheel is?

- (A) Bakelite
- (B) Polystyrene
- (C) Polyesters
- (D) Nylons

46. Which of the following is used in oven?

- (A) Microwaves

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- (B) UV rays
- (C) X-rays
- (D) Radio waves

47. When heated from  $0^{\circ}$  to  $10^{\circ}$  C volume of a given mass of water will?

- (A) Increase and then will decrease
- (B) Decrease and then will increase
- (C) Increase gradually
- (D) Decrease gradually

48. Energy is continuously created in the sun due to?

- (A) Nuclear fission
- (B) Artificial radioactivity
- (C) Nuclear fusion
- (D) Radioactivity

49. Coolis tube is used to produce?

- (A) Gama rays
- (B) Radio waves
- (C) X-rays
- (D) Microwaves

50. Which of the following is used for regulated electric supply?

- (A) Zener diode
- (B) Tunnel diode
- (C) Junction diode
- (D) Gun diode

51. Gamma rays can cause?

- (A) Gene mutation
- (B) Sneezing
- (C) Burning
- (D) Fever

52. The substance which conducts current in the solid state is?

- (A) Diamond
- (B) Graphite
- (C) Sodium chloride
- (D) Iodine



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53. Which set of conditions represents the easiest way to liquefy a gas?
- (A) Low temperature and high pressure
  - (B) Low temperature and low pressure
  - (C) High temperature and low pressure
  - (D) High temperature and high pressure
54. What is color of light related to?
- (A) Amplitude
  - (B) Velocity
  - (C) Frequency
  - (D) Quality
55. What principle law explains the working of the hydraulic breaks in automobiles?
- (A) Archimedes principle
  - (B) Bernoulli's law
  - (C) Pascal's law
  - (D) Posieulles's law
56. The best conductor of heat among the following is?
- (A) Ether
  - (B) Mercury
  - (C) Alcohol
  - (D) Water
57. What is viewed through an electron microscope?
- (A) Inside of human stomach
  - (B) Structure of bacteria and viruses
  - (C) Inside of the human eye
  - (D) Electrons and other elementary particles
58. What apparatus is used to locate a submerged object?
- (A) (I)Radar
  - (B) Sonar
  - (C) Quasar
  - (D) Pulsar
59. Which combination of color is the most convenient during day and night?
- (A) White and black
  - (B) Yellow and blue

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- (C) Orange and blue
- (D) Red and green

60. The instrument that measure and records the relative humidity of air is?

- (A) Barometer
- (B) Hygrometer
- (C) Hydrometer
- (D) Lactometer

61. The shape of milky galaxy is?

- (A) Circular
- (B) Elliptical
- (C) Spiral
- (D) None of above

62. The different colors of different stars are due to the variation of?

- (A) Temperature
- (B) Pressure
- (C) Density
- (D) Radiation from them

63. Woolen clothes keep the body warm because?

- (A) Wool increase the temperature of the body
- (B) Wool is a bad conductor
- (C) Wool absorbs radiant heat from outer object
- (D) Wool rejects heat from the outer objects

64. If the length of a simple pendulum is halved then its period of oscillation is?

- (A) Doubled
- (B) Halved
- (C) Increased by a factor
- (D) Decreased by a factor

65. Mist is caused by?

- (A) Dry ice
- (B) Ice at low temperature
- (C) Water vapor at low temperature
- (D) Carbon monoxide in solid form

66. While catching a ball a player pulls down his hands to lower the?

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- (A) Force
- (B) Momentum
- (C) Impulse
- (D) Catching time

67. When a barometer reading suddenly recedes it indicates that climate?

- (A) Will be very warm
- (B) Will be extremely stormy
- (C) Will remain cold
- (D) Incessant rain at least 48 hours

68. A particle dropped from the top of a tower uniformly falls on ground at a distance which is equal to the height of tower. Which of the following paths will be traversed by the particle?

- (A) Circle
- (B) Parabolic
- (C) Great circle
- (D) Hyper parabolic

69. Electron microscope was invented by?

- (A) Knoll and Ruska
- (B) Robert Koch
- (C) Leeuwenhoek
- (D) C.P. Swanson

70. When a bottle of scent is kept open in a corner of a room its odor is felt in all parts of the room. This is due to the phenomenon of?

- (A) Evaporation
- (B) Vaporization
- (C) Diffusion
- (D) Sublimation

71. Clear nights are colder than cloudy nights because of?

- (A) Conduction
- (B) Condensation
- (C) Radiation
- (D) Insulation

72. A gas thermometer is more sensitive than a liquid thermometer because a gas?

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- (A) Is lighter than liquid
- (B) Expands more than a liquid
- (C) Is easy to obtain
- (D) Does not change state easily

73. Which one of the following is used for sun glasses?

- (A) Pyrex glass
- (B) Flint glass
- (C) Crooks glass
- (D) Crystal glass

74. The speed of light with the rise in the temperature of the medium?

- (A) Increases
- (B) Decreases
- (C) Remains unaltered
- (D) Drops suddenly

75. When the barometer reading dips suddenly it is an indication of?

- (A) Hot weather
- (B) Calm weather
- (C) Storm
- (D) Dry weather

76. Good conductor of electricity is?

- (A) Dry air
- (B) Paper
- (C) Kerosene
- (D) Graphite

77. Heat from the sun reaches the earth by?

- (A) Reflection
- (B) Conduction
- (C) Radiation
- (D) Convection

78. In which of the following cases kinetic energy is being used in performing work?

- (A) Paddling the bicycle to cover a distance
- (B) Driving a car to cover a distance
- (C) Wind mill grinding wheat grain
- (D) Rowing a boat in the lake

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79. If the velocity time graph of a particle is represented by  $y = mt + c$  then the particle is moving with?

- (A) Constant speed
- (B) Constant velocity
- (C) Constant acceleration
- (D) Varying acceleration

80. Which of the following occurred first?

- (A) Albert Einstein propounded the General Theory of Relativity
- (B) Max Planck unveiled the Quantum Theory
- (C) Guglielmo Marconi sent out the first wireless signals
- (D) Wright brothers successfully flew an aircraft

81. A passenger standing in a bus is thrown outward when the bus takes a sudden turn happen due to?

- (A) Outward pull on him
- (B) Inertia on motion
- (C) Change in momentum
- (D) Change in acceleration

82. When pressure is increased the melting point of ice?

- (A) Increases
- (B) Does not change
- (C) Decrease
- (D) Depends on the impurities in the ice

83. Longitudinal waves travel through?

- (A) Vacuum
- (B) Solid
- (C) Liquid
- (D) Gas

84. Electrostatic precipitator is used to control the pollution of?

- (A) Air
- (B) Water
- (C) Noise
- (D) Thermal

85. The sky appears blue because of?

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- (A) Atmospheric water vapor
- (B) Scattering of light
- (C) Reflection on sea water
- (D) Emission of blue wavelength by the sub

86. Dynamo is a device for converting?

- (A) Heat energy into electrical energy
- (B) Mechanical energy into electrical energy
- (C) Magnetic energy into electrical energy
- (D) Chemical energy into electrical energy

87. Oil rises up the wick in a lamp because?

- (A) Oil is very light
- (B) Of the diffusion of oil through the wick
- (C) Of the surface tension phenomenon
- (D) Of the capillary action phenomenon

88. In the atmosphere ultraviolet rays are absorbed by?

- (A) Oxygen
- (B) Nitrogen
- (C) Ozone
- (D) Helium

89. An electron microscope gives higher magnification than an optical microscope because?

- (A) It uses more powerful lenses
- (B) The velocity of electron is smaller than that of visible light
- (C) The electrons have more energy than the light particles
- (D) The wavelength of electrons is smaller as compared to the wavelength of visible light

90. For a body moving with no uniform velocity and uniform acceleration?

- (A) (X) Displacement time graph is linear
- (B) Displacement time graphic is nonlinear
- (C) Velocity time graph is nonlinear
- (D) Velocity time graph is linear

91. Lamberts law is related to?

- (A) Reflection
- (B) Refraction

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- (C) Interference
- (D) Illumination

92. Which of the following laws validates the statement that matter can neither be created nor destroyed?

- (A) Law of conservation of energy
- (B) Le Chateliers Principle
- (C) Law of conservation on mass
- (D) Law of osmosis

93. Decibel is the unit used for?

- (A) Speed of light
- (B) Intensify of light
- (C) Intensity of sound
- (D) Radio wave frequency

94. The term Isoneph indicates the lines of equal?

- (A) Cloudiness
- (B) Salinity
- (C) rainfall
- (D) Pressure

95. The atmospheric layer reflecting radio waves are called?

- (A) Ozonosphere
- (B) Ionosphere
- (C) Stratosphere
- (D) Mesosphere

96. Cryogenics is a science dealing with?

- (A) High temperatures
- (B) Low temperatures
- (C) Friction and water
- (D) Growth of crystals

97. The mass energy relation is the outcome of?

- (A) Quantum theory
- (B) General theory of relativity
- (C) Field theory of energy
- (D) Special theory of relativity

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98. Which of the following are used for accurately measuring very small time intervals?

- (A) Pulsars
- (B) Quartz clocks
- (C) Atomic clocks
- (D) White dwarfs

99. Danger signals are generally red as as red light?

- (A) Is less bright
- (B) Undergoes least deviation
- (C) Has lowest velocity
- (D) Gives comfort to eye

100. A simple microscope consists of?

- (A) A short focus convex lens
- (B) A long focus convex lens
- (C) A short focus concave lens
- (D) A long focus concave lens



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Answer

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

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