

Past Papers of GDP from Physics Subject

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| S.No | Questions Statement | Answer |
|------|---|----------------------------|
| 1. | Light year is the unit of ____. | Distance |
| 2. | Cloud_____ Is the example of which process. | Condensation |
| 3. | Unit of angular momentum is ____?. | $\text{kg-m}^2/\text{sec}$ |
| 4. | In N type minority charge carriers are called ____. | Holes |
| 5. | Photoelectric effect was discovered by _____ in 1887. | Heinrich Rudolf Hertz |

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| | | |
|----|--|---|
| 6. | Formula of Electric Flux is _____?. | Electric Flux = $E.S$ $= ES \cos \theta$ |
| 7. | A thermodynamic process in which there is no heat transfer from in or out of the system is called _____. | Adiabatic Process |
| 8. | A thermodynamic process in which the temperature of a system remains constant. Is called _____. | Isothermal process |
| 9. | An electrical component that converts alternating current (AC) to direct current (DC) is called _____. | Rectifier |

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| | | |
|-----|--|----------------------------|
| | Which ones have same units in (Work, Power, Energy, velocity, acceleration, Distance, Frequency) | Work, Power, Energy, |
| 10. | | |
| 11. | The value of the Rydberg constant $R_{\infty} = \text{---}$? | 10,973,731.56816 per metre |
| 12. | Unit Of Angular Momentum --- ? | KG M ² /s |
| 13. | Unit ii.jj.kk = --- ? | Zero |
| 14. | Light year is the unit of --- ? | Distance |
| 15. | N-type minorities carries --- ? | Holes |
| 16. | Transformer work on the principle of --- ? | Mutual Abduction |
| 17. | Impulse the product of --- ? | Force and Time |

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| | | |
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| 17. | Impulse the product of ____? | Force and Time |
| 18. | _____ cross each other. | Never |
| 19. | Strain is dimensionless and has no ____? | Unit |
| 20. | Cloud formation proses is called ____? | Condensation |
| 21. | $X=A+B$ is ____? | OR GATE |
| 22. | Sound waves are? | Longitudinal Waves |
| 23. | 1 Radian ? | 57.3 |
| 24. | Voltmeter only work when connect ____? | Parallel |
| 25. | 20kg mass body is____? | 9.81 ms^{-1} |

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| | | |
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| 26. | Force in a closed loop on gravitational field ____? | Zero |
| 27. | Dimensions of angular momentum ____? | $M^1L^2T^{-1}$ |
| 28. | Geo stationary satellite covers the angle of how many degree__? | 120° |
| 29. | The distance covered by the body at specific instance of time is called ____? | Instantaneous velocity |
| 30. | The vertical component of projectile at the point of ejection is called ____? | Projectile Motion |

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| | | |
|-----|--|------------------|
| 31. | The range of projectile depends upon ____? | Initial Velocity |
|-----|--|------------------|

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| | | |
|-----|-------------------------------------|---|
| 32. | The equation of continuity is ____? | $A_1v_1=A_2V_2$, or $\rho_1=\rho_2$ |
|-----|-------------------------------------|---|

| | | |
|-----|---|------------------|
| 33. | Electromagnetic Waves are of the type ____? | Transverse Waves |
|-----|---|------------------|

| | | |
|-----|---|-------------------------------|
| 34. | The waves in the organ pipe are of the type ____? | Longitudinal Stationary Waves |
|-----|---|-------------------------------|

| | | |
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| 35. | The torque of a body is 2000 Nm and angular momentum is 2 find it's moment of inertia. | 1000 Kgm ² |
|-----|--|-----------------------|

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| 36. | Max plank proposed the theory of ____? | Quantum Theory |
|-----|--|----------------|

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| 37. | In photo electro effect electron losses it's energy and it's wavelength changes____? | Decreases |
| 38. | In inelastic collision both momentum and energy is conserved but not in____? | Elastic Collision |
| 39. | Optical fiber has core, ____ and Sheath? | Cladding |
| 40. | How many types of optical fiber are____? | Three |
| 41. | The Kinetic energy of a body is related with temperature in which way? | Directly |

42. The efficiency of diesel engine is ? 35-40%

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43. The study of charges at rest is called____? Electrostatic

44. Mathematical form of Ampere law____? $\oint \mathbf{B} \cdot d\mathbf{l} = \mu_0 I$

45. Power is inverse of____? Focal Length

46. Light year is unit of____? Distance

47. Dimension of $P = W/t$ $M L^2 T^{-3}$

48. Limiting friction unit____? No Unit

49. Force of gravity under sea____? Increases

50. Sky is blue because____? scattering of light

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| | | |
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| 51. | PN junction is not used as___? | Amplifier |
| 52. | Force in term of charge is given by___? | $F=Qe$ |
| 53. | Flux through any closed surface is_____? | 1/Absalom not |
| 54. | Reversible of Fusion reaction is_____? | Fission |
| 55. | Unit of work_____? | Joule |
| 56. | The sensation of a frequency is commonly referred to as the _____. | Pitch Of Sound |

| | | |
|-----|--|--------------------|
| | <p>The current induced in a circuit due to a change in a magnetic field is directed to oppose the change in flux and to exert a mechanical force which opposes the motion is called _____.</p> | Lenz's law |
| 57. | | |
| 58. | <p>Graph distance under time represents_____?</p> | Speed of an Object |
| 59. | <p>The distance covered by an object in unit time is called _____.</p> | Velocity |
| 60. | <p>What will be the FORCE if distance between masses of charges becomes double?</p> | 4 Times Force |

61. Work done in closed path is_____? Zero

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62. Main difference among conductor , semiconductor, insulator is_____? No of Mobile Electrons

63. Alpha particles are_____? Electrons

64. Critical Velocity? 11.2 km per sec

65. Weight of Aeroplane when it takes off ? Maximum

66. Value of g is independent of ? Altitude , debth , latitude or , longitude

67. Energy stored in a capacitor is called? Electrostatic Potential Energy

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68. when resistors are connected in parallel current remain same Same

| | | |
|-----|--|--|
| 69. | Chromatic aberration is due to? | The Dispersion of Light |
| 70. | A measure of the size of an image compared to the size of the object is called ____. | Magnification |
| 71. | When sun sets the sky is still lighten with light. Why? | Due to full of Gas molecules |
| 72. | Speed of Sound is? | 761 mph, or 1100 feet/second |
| 73. | Unit of Angular Momentum is ____? | kilogram metres squared per second (kg-m²/sec) |
| 74. | Electron Volt is the unit of ____? | Energy |

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| 75. | How to present Alpha particles? | Alpha Radiations |
| 76. | What will be combination of transistors if base is positive? | NPN & PNP |
| 77. | When velocity becomes maximum during projectile motion, angles becomes? | 45 Degree |
| 78. | Scalar quantities are _____? | Temperature, Mass, Energy, Distance, Speed, Density |
| 79. | Half-life of Radon is _____? | 3.8 days |
| 80. | Equation of first law of thermodynamics is _____? | $\Delta U = q + W$ |

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81. Magnetic field due to a current carrying conductor depends upon ____?

Current and Distance

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82. Unit of Inductance is ____?

Henry

83. What is equation to find Torque?

$\tau = r \times F$

84. Dimension of Kinetic Energy is ____?

$M^1 L^2 T^{-2}$

85. If an observer is at rest and source is moving then wavelength will be ____.

Same

86. Phenomenon in which electrically charged particles are released from or within a material when it absorbs electromagnetic radiation is called

Photo Electric Effect

| | | |
|-----|---|-------------------|
| 87. | Emission of Electron depends upon _____? | High Temperature |
| 88. | The number of waves that pass a fixed place in a given amount of time is called _____. | Frequency |
| 89. | Photo Electric Effect shows which nature of light? | Particle |
| 90. | Reverse process of Photoelectric Effect is _____? | X-rays production |
| 91. | The creation of a subatomic particle and its antiparticle from a neutral boson is called _____. | Pair Production |
| 92. | Pair production occurs through which rays? | Gama Rays |

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| 93. | It is a principal way in which radiant energy is absorbed in matter is called | Compton Effect |
| 94. | An interface or a boundary between two semiconductor material types, namely the p-type and the n-type, inside a semiconductor is called _____. | PN Junction |
| 95. | Putting a voltage across a diode that allows current to flow easily is called _____. | Forward Bias |
| 96. | Denoting a voltage across the diode in the opposite direction is called | Reverse Bias |

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| 97. | Unit is Impulse is _____? | Ns or Kg m/s |
|-----|---------------------------|--------------|

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Property

characterizing the rotary inertia of an object or system of objects in motion

98.

about an axis that may or may not pass through the object or system is called _____.

Angular

Momentum

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| 99. | A vector such as the radius vector that reverses sign when the coordinate axes are reversed is called _____. | Polar Vector |
|-----|--|--------------|

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100. A line joining the two charges and passing through the Centre of dipole is called _____ line. Axial

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