Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - - Physics II Course Code - DEE202

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1.	Email *
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3.	Enter Full Student Code *
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6.	Enter Course Code *

7. Enter Course Name *

8.

Mark only one oval.
Diploma in Pharmacy
Bachelor of Pharmacy
B.TECH.(CSE)
B.TECH.(ECE)
BCA
B.SC.(CS)
B.SC.(BT)
B.SC.(ANCS)
B.SC.(HN)
B.Sc.(MM)
B.A.(MW)
BBA
B.COM
B.A.(JMC)
BBA(HM)
BBA(LLB)
B.OPTOMETRY
B.SC.(MB)
B.SC.(MLT)
B.SC.(MRIT)
B.SC.(PA)
LLB
B.SC(IT)-AI
B.SC.(MSJ)
Bachelor of Physiotherapy
B.SC.(AM)
Dip.CSE
Dip.ECE
<u>DIP.EE</u>
DIPCE

9.

<u>DIP.ME</u>
PGDHM
MBA
M.SC.(BT)
M.TECH(CSE)
LLM
M.A.(JMC)
M.A.(ENG)
M.SC.(MATH)
M.SC.(MB)
M.SC.(MSJ)
M.SC.(AM)
M.SC.CS)
M.SC.(ANCS)
M.SC.(MM)
B.A.(Eng)
Answer all the questions. Each question carry one mark.
. 1. What are the units of power *
Mark only one oval.
Horsepower
Joules per second
Watts
all the choices are correct

10.	2. In a He-Ne laser, the laser transition takes place in *
	Mark only one oval.
	He only
	Ne only
	Ne first, then in He
	He first, then in Ne
11.	3. A semiconductor has generally valence electrons. *
	Mark only one oval.
	2
	3
	4
	5
12.	4. Heat produced by current in wire during 't' time is *
	Mark only one oval.
	$H = I^2R$
	H = IRt
	$H = I^2t$
	$H = I^2Rt$

13.	5. AThe resistance of two lamps connected in a series across a battery is in the ratio 4:5. Their power will be in the ratio *						
	Mark only one oval.						
	4:5						
	5:4						
	16:25						
	25:16						
14.	6. SI unit for force is *						
	Mark only one oval.						
	Kilograms						
	Newton						
	Joules						
	Acceleration						
15.	7. Which of the following is a semi-conductor *						
	Mark only one oval.						
	Diamond						
	Arsenic						
	Phosphorous						
	Gallium arsenide						

8. When condition R1/R2 = R3/R4 is satisfied, current in galvanometer of Wheatstone bridge is *
Mark only one oval.
1
0
minimum
Maximum
9. A circuit contains two equal resistances in parallel *
Mark only one oval.
current is same in both
large current flows in larger resistor
potential difference across each is same
smaller resistance has smaller conductance
10.Momentum is conserved in *
Mark only one oval.
an elastic collision of two balls
an inelastic collision of two balls
the absence of an external force
all of these

19.	11. Type of x-rays used to detect break in bone is *
	Mark only one oval.
	hard soft both A and B moderate
20.	12. Bridge rectifier is an alternative for * Mark only one oval. perpendicular to the magnetic field parallel to the magnetic field
	far away from the magnetic field inside a magnetic field
21.	13. An ammeter should have resistance * Mark only one oval. infinite very large very low none of these

22.	14. What happens to the body on which work is done *
	Mark only one oval.
	it loses energy it gains energy
	no change in the energy
	first it loses then it gain
23.	15.In characteristic X-ray emission ka line is due to transition of electron from atomic shell *
	Mark only one oval.
	L to K
	K to L
	M to K
	M to L
24.	16. A silicon p-n junction diode in forward biased condition has a voltage drop closer to *
	Mark only one oval.
	0.1 V
	0.7 V
	1.7 V
	2.1 V

25.	17. Lenz's law is based on *
	Mark only one oval.
	charge
	momentum
	energy
26.	18. Reciprocal of resistance is called *
	Mark only one oval.
	transmission
	resistivity
	inspection
	conductance
	Conductance
27.	19. The commercial unit of Energy is *
	Mark only one oval.
	Watt
	Watt-hour
	Kilowatt-hour
	Kilowatt

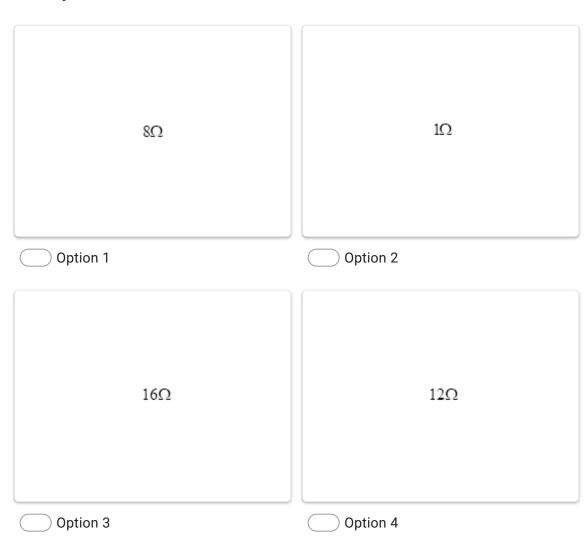
28.	20. If the current in the circuit for heating the filament is increased, the cut off wavelength *
	Mark only one oval.
	will increase
	will decrease
	will remain same
	will be zero
29.	21. In He-Ne laser neon atoms get energy *
	Mark only one oval.
	on collision with He atoms
	from chemical reactions
	from electrical pumping
	from optical pumping
30.	22. The force on a conductor of length I carrying current i, placed perpendicular to a uniform magnetic field B is *
	Mark only one oval.
	zero
	iB/I
	☐ iBI
	BI/i

31.	23. Which of the following processes requires the most work *
	Mark only one oval.
	A person holds a 1kg weight stationary with outstretched arms A person lifts a 1kg weight 1m off the floor A person lifts a 10kg weight 1m off the floor A 10kg weight rests on a table
32.	24. *
	The sequences of colored bands in two carbon resistors R_1 and R_2 are i) brown, green, blue and ii) orange, black, green. $\frac{R_1}{R_2}$ = ? Mark only one oval. 4 5 6 7
33.	25. The ratio of He to Ne in a He-Ne laser is of the order of * Mark only one oval. 1:15
	1:1 1:10 5:1

34.	26. What is the unit of magnetic field? *
	Mark only one oval.
	Tesla
	Faraday
	Newton
	Newton / meter
35.	27. Current-voltage graph of ohmic devices is a *
	Mark only one oval.
	linear graph
	non-linear graph
	parabolic graph
	hyperbola graph

36. 28. *

A wire of resistance 4Ω is stretched to twice its original length, its new resistance is Mark only one oval.



37. 29. Displacement is a *

Mark only one oval.

- scalar quantity
- vector quantity
- Derived quantity
- none of these
- Option 5

38.	30. The process of population inversion is to increase the number of atoms in the *
	Mark only one oval.
	excited state
	ground state
	intermediate state
	excited state and ground state
39.	31. Addition of pentavalent impurity to a semiconductor creates many *
	Mark only one oval.
	Free electrons
	Holes
	Valence electrons
	Bound electrons
40.	32 Suplicity is directly converted into electrical energy by using *
40.	32. Sunlight is directly converted into electrical energy by using *
	Mark only one oval.
	cells
	solar cells
	electric generator
	electrical energy

41.	33. Least current will flow through *
	Mark only one oval.
	25 ohm resistor 5 ohm resistor
	15 ohm resistor
	18 ohm resistor
42.	34."Energy can neither be created nor be destroyed, but it can be changed from one form to another", this law is known as *
	Mark only one oval.
	kinetic energy
	potential energy
	conservation of energy
	conservation principle
43.	35. In He-Ne laser, the activator atom *
	Mark only one oval.
	Helium
	Neon
	Helium and Neon both
	none of these

44.	36. In semiconductor the forbidden energy gap lies *
	Mark only one oval.
	Just below the conduction band
	Just above the conduction band
	Either above or below the conduction band
	Between the valence band and conduction band
45.	37. "Sum of all currents meeting at a point is zero", stated law is *
	Mark only one oval.
	Kirchhoff's first law
	Kirchhoff's second law
	Kirchhoff's third law
	Kirchhoff's fourth law
46.	38. In order to increase range of ammeter, value of shunt resistance is *
	Mark only one oval.
	increased
	decreased
	unchanged
	zero

4/.	39. A car traveling at a speed of 40 km/hr increases its speed to 80 km/hr. As a result its kinetic energy increases *
	Mark only one oval.
	2 times
	4 times
	8 times
	none of these
40	40 V row beam can be deflected by *
48.	40.X-ray beam can be deflected by *
	Mark only one oval.
	a magnetic field
	an electric field
	both magnetic field and electric field
	neither by an electric field nor by a magnetic field
49.	41. The depletion region with in a p-n junction is reduced when the junction has *
	Mark only one oval.
	Zero bias
	Forward bias
	Reverse bias
	All of these

50.	42. A fuse wire is *
	Mark only one oval.
	a conductor
	an insulator
	a semi-conductor
	made of any material
51.	43. Current produces magnetic effect due to its *
	Mark only one oval.
	mechanical energy
	magnetic field
	electrical field
	chemical energy
52.	44. When a body falls freely under gravity, then the work done by the gravity is *
	Mark only one oval.
	positive
	negative
	zero
	infinity

53.	45. If V be the potential difference between cathode and target (anode) in collide tube *
	Mark only one oval.
	Vmax=(hc)/(eV)
	Vmax=(eV)/h
	Vmax=(eh)/V
	Vmax=(hV)/c
54.	46. Avalanche breakdown in a diode occurs when *
	Mark only one oval.
	Potential barrier is reduced to zero
	Forward electric current exceeds certain value
	Reverse bias exceeds a certain value
	None of these
55.	47. In order to do work, energy is *
	Mark only one oval.
	transferred or converted
	used up
	lost
	lost or transferred

56.	48. The wavelength of of He-Ne laser is *
	Mark only one oval.
	632.8 nm
	600 nm
	532.8 nm
	500 nm
57.	49. The magnetic field inside a solenoid is *
	Mark only one oval.
	strong at N pole and weak at S pole
	strong at S pole and weak at N pole
	uniform throughout
	zero
58.	50. *
	Voltage of a device having resistance 5 $\boldsymbol{\Omega}$ and current 4 A will be
	Mark only one oval.
	10 V
	15V
	20V
	25V

59.	51. Unit of electric charge is *
	Mark only one oval.
	Coulomb
	Coulomb/sec
	Volt
	None of these
60.	52. Magnitude of displacement from initial position to final position is *
	Mark only one oval.
	straight line
	curved line
	circle
	none of these
61.	53. Which process gives the laser its special properties as an optical source *
	Mark only one oval.
	Dispersion
	Stimulated absorption
	Spontaneous emission
	Stimulated emission

62.	54.When a pure semiconductor is heated, its resistance*
	Mark only one oval.
	Goes up
	Goes down
	Remains the same
	Can't say
63.	55. Resistances used in circuit of Wheatstone bridge are *
	Mark only one oval.
	2
	3
	4
	5
64.	56. An electric heater is rated 1100W at 220V. The amount of energy consumed in kilowatt-hr by it in 4 hour is *
	Mark only one oval.
	2.2
	4.4
	6.2
	2.1

65.	57. Light which has a wide band of wavelength is called *
	Mark only one oval.
	coherent
	incoherent
	infrared
	microwave
66.	58. A semiconductor has temperature co-efficient of resistance. *
	Mark only one oval.
	Zero
	Positive
	Negative
	None of these
67.	59. Filament bulbs are best examples of the *
	Mark only one oval.
	non-ohmic devices
	resistive devices
	ohmic devices
	electric devices

68.	60. In superconductivity the conductivity of a material becomes *
	Mark only one oval.
	Zero
	Finite
	Infinite
	None of these
69.	61. A particle is thrown vertically upward with a velocity 40 ms-1 from the ground. It will reach the ground after
	Mark only one oval.
	8 s
	4 s
	20 s
	16 s
70.	62. A gun recoiling when it is fired is an example of
	Mark only one oval.
	conservation of momentum
	conservation of angular momentum
	conservation of energy
	none of these

71.	63. A mass is revolving in a circle which is in the plane of the paper. The direction of angular acceleration
	Mark only one oval.
	upward to the radius
	towards the radius
	tangential
	at right angle to angular velocity
72.	64. Joule/second is related to
	Mark only one oval.
	Watt
	Newton
	Pascal
	Torr
73.	65. Heating effect of electric current is used in
	Mark only one oval.
	electric kettle
	fan
	freezer
	TV

74.	66. Thermocouple is source of current that converts heat energy to
	Mark only one oval.
	chemical energy
	mechanical energy
	solar energy
	electrical energy
75.	67. No force acts on a current carrying conductor when it is placed
	Mark only one oval.
	perpendicular to the magnetic field
	parallel to the magnetic field
	far away from the magnetic field
	inside a magnetic field
76.	68. Which instrument is used for converting electrical energy into mechanical energy
	Mark only one oval.
	Electric generator
	Electric motor
	Electric iron
	Electric oven

77.	69. The SI unit of self-inductance is
	Mark only one oval.
	Gauss
	Henry
	Tesla
	None of these
78.	70. Who has stated the Right hand Thumb Rule?
	Mark only one oval.
	Orsted
	Fleming
	Einstein
	Maxwell

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