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

Course Name - -Fundamental Physics and Radiological Physics Course Code - BMRIT202

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8.

Mark only one oval.		
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B.TECH.(CSE)		
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B.COM		
B.A.(JMC)		
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LLB		
B.SC(IT)-AI		
B.SC.(MSJ)		
Bachelor of Physiotherapy		
B.SC.(AM)		
Dip.CSE		
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<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)	
MCA	
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.Coulomb is the unit o	of which quantity?
Mark only one oval.	
field strength	
charge	
permittivity	
force	

10.	2.Two charges 1C and -4C exists in air. What is the direction of force?
	Mark only one oval.
	away from 1C
	away from -4C
	from -4C to 1C
	from 1C to -4C
11.	3.The S.I. unit of electric field intensity is
	Mark only one oval.
	NC-1
	N-1C
	○ NC
	none of the above
12.	4.In a sinusoidal wave, average current is always rms current.
	Mark only one oval.
	greater than
	less than
	equal to
	not related

13.	5.Process in which A.C is converted into D.C is called
	Mark only one oval.
	induction
	rectification
	inversion
	dispersion
14.	6.A moving charge produces
	Mark only one oval.
	electric field only
	magnetic field only
	both of them
	none of these
15.	7.The divergence of magnetic flux density B
	Mark only one oval.
	0
	<u> </u>
	none of these

16.	8. Compressions and rarefactions are due to
	Mark only one oval.
	movement if air molecules
	vibration of air molecules
	variability of air pressure
	variability of vibration of air molecules
17.	9.Which of the following is/ are not applications of Ultrasonic Waves?
	Mark only one oval.
	for measuring the depth of sea
	in sterilizing of a liquid
	in Ultrasonography
	in sterilizing a needle
18.	10.Name the characteristic of the sound which distinguishes a sharp sound from a grave or dull sound?
	Mark only one oval.
	intensity
	echo
	pitch
	resonance

19.	11.Which of the following can be measured using SONAR?
	Mark only one oval.
	distance of underwater objects direction of underwater objects speed of underwater objects all of the above
20.	12.Which colour of heat radiation represents the highest temperature? Mark only one oval. blood red dark chery white salmon
21.	13. According to Newton's law of cooling, the heat transfer from a hot body to a cold body is Mark only one oval. directly proportional to the surface area directly proportional to the difference of temperatures between the two bodies either (A) or (B)
	both (A) and (B)

22.	14.The heat transfer takes place according to
	Mark only one oval.
	Zeroth law of thermodynamics
	first law of thermodynamics
	second law of thermodynamics
	Kirchhoff's law
23.	15.Ripple factor of full wave rectifier is
	Mark only one oval.
	0.52
	1.21
	0.48
	<u> </u>
24.	16.A diode is a device which is
	Mark only one oval.
	Linear
	nonlinear
	bilateral
	unilateral

25.	17.The base of a transistor isdoped
	Mark only one oval.
	heavily
	moderately
	lightly
	none of the above
26.	18.If the doping level in a crystal diode is increased , the width of depletion layer
	Mark only one oval.
	remains the same
	is decreased
	is increased
	none of the above
27.	19.The maximum possible efficiency of a half wave rectifier is
	Mark only one oval.
	0.406
	0.812
	0.5
	0.25

28.	20.When a PN junction is reverse-biased
	Mark only one oval.
	holes and electrons tend to concentrate towards the junction the barrier tends to break down
	holes and electrons tend to move away from the junction none of the above
29.	21.A PN junction
	Mark only one oval.
	has low resistance in forward as well as reverse directions has high resistance in forward as well as reverse directions conducts in forward direction only conducts in reverse direction only
30.	22.If in an alternating current circuit, resistance is 5 ohm, capacitive reactance is 12 ohm, what is the impedance?
	Mark only one oval.
	5 ohm 10 ohm 12 ohm 13 ohm

31.	23.The capacitance C is charged through a resistor R. The time constant of the charging circuit is given by
	Mark only one oval.
	C/R
	1/RC
	RC
	R/C
32.	24. Which of the following is used for measurement of high temperatures?
	Mark only one oval.
	vapour thermometer
	energy meter
	resistance thermometer
	pyrometer
33.	25. Select the equation below that represents the relationship between charge (Q)
	capacitance (C) and voltage (V) for a capacitor.
	Mark only one oval.
	\bigcirc Q = CV
	\bigcirc C = QV
	C = Q2/V
	C2 = QV

34.	26.In a sinusoidal wave, average current is always rms current.
	Mark only one oval.
	greater than
	less than
	equal to
	not related
35.	27.In case of filament lamp at higher voltages, resistance of lamp
	Mark only one oval.
	decreases
	increases
	remains constant
	varies depending on the filament
36.	28.If connections across resistor are reversed, then graph between current and potential difference is
	Mark only one oval.
	variable
	straight lined
	constant
	inverted

37.	29.The SI unit of Poynting vector is
	Mark only one oval.
	Wm Wm-1 Wm2 Wm-2
38.	30.A moving charge produces
	Mark only one oval.
	electric field only
	magnetic field only
	both of them
	none of these
39.	31.The hearing range of human ear is
	Mark only one oval.
	20 Hz to 20,000 Hz
	less than 20 Hz
	more than 20,000 Hz
	20 Hz to 25,000 Hz

40.	32.What is the effect of increase of temperature on the speed of sound?
	Mark only one oval.
	it increases
	it decreases
	it may or may not increase
	no effect
41.	33. Which of the following sound waves are used in echocardiography?
	Mark only one oval.
	infrasonic
	ultrasonic
	between 20 Hz and 2000 Hz
	none of these
42.	34.Which of the following can be measured using SONAR?
	Mark only one oval.
	distance of underwater objects
	direction of underwater objects
	speed of underwater objects
	all of these

43.	35. Which of the following is the fastest process of heat transfer?
	Mark only one oval.
	conduction
	convection
	radiation
	insolation
44.	36.According to Newton's law of cooling, the heat transfer from a hot body to a cold body is
	Mark only one oval.
	directly proportional to the surface area
	directly proportional to the difference of temperatures between the two bodies
	either (A) or (B)
	both (a) and (b)
45.	37.The heat transfer takes place according to
	Mark only one oval.
	Zeroth law of thermodynamics
	first law of thermodynamics
	second law of thermodynamics
	Kirchhoff's law

46.	38.Cork is a good insulator because it has
	Mark only one oval.
	free electrons
	atoms colliding frequency
	low density
	porous body
47.	39.The thermal diffusivities for solids are generally
	Mark only one oval.
	less than those for gases
	less than those for liquids
	more than those for liquids and gases
	more or less same as for liquids and gases
48.	40.Ripple factor of full wave rectifier is
	Mark only one oval.
	0.52
	1.21
	0.48
	1

49.	41.A transistor has
	Mark only one oval.
	one pn junction
	two pn junction
	three pn junction
	four pn junction
50.	42.Early effect in a transistor is known as
	Mark only one oval.
	Zener breakdown
	Avalanche breakdown
	Thermal breakdown
	Reduction in width of base or base narrowing
51.	43.For X-rays to travel
	Mark only one oval.
	No medium required
	Presence of water
	Presence of oxygen
	None of these

52.	44.Soft X-ray have the tube voltage of
	Mark only one oval.
	0-10 kV 20-60 kV 150-400 kV 400-3000 kV
53.	45.Anode is made up of
	Mark only one oval.
	Tungsten with rhenium Pure tungsten Molybdenum None of these
54.	46.The amount of the kinetic energy utilized in production of X-rays are Mark only one oval. Less than 1% Less than 40% Less than 90% Less than 99%

55.	47.The filters used in diagnostic X-ray tubes are made up of
	Mark only one oval.
	Aluminium Copper Tin Lead
56.	48.Tungsten is the ideal material for anode because it has Mark only one oval.
	High atomic number (74) High melting point (3370° C) High specific heat and high thermal conductivity All of these
57.	49.The "Heel effect" is Mark only one oval. Higher on cathode side than anode side Higher on anode side than cathode side Equal on both on cathode and anode side All of these

58	. 50.Anode "Heel effect can be used
	Mark only one oval.
	Thicker parts of the body towards cathode Thicker parts of the body towards anode No effect All of these
59	
	Mark only one oval.
	Reflected
	Absorbed
	Transmitted
	All of these
60	. 52.In coherent scattering, the single electron is involved in interaction in
	Mark only one oval.
	Thompson scattering
	Rayleigh scattering
	Both of these
	None of these

61.	53.Pair production occur, if energy is of
	Mark only one oval.
	0.08 MeV 0.02 MeV 0.10 MeV
	1.02 MeV
62.	54.Gas filled tubes has the following advantages
	Mark only one oval.
	 kV and mAs are difficult to control independently Produce blackening thus shortening its life Speed of the electron will be reduced thus energy of the X-rays would be lesser All of these
63.	55.The glass envelope of diagnostic X-ray tube is made up of Mark only one oval. Borosilicate Ordinary glass Steel None of these

64.	56.Early causes of X-ray tube failure are
	Mark only one oval.
	Overheating Mechanical damage of filament/glass envelope Electric failure Any of these
65.	57.The X-ray tube said to be "gassy" when Mark only one oval. Filament has burnt out
	Presence of the gas molecule Pitting of the anode None of these
66.	58.The current in X-ray tube range between Mark only one oval. 1-100 mA 1-300 mA 1-500 mA Tue Dec 31 0999 23:36:32 GMT+0530 (IST)

67.	59.Modern X-ray tubes used in diagnostic radiology has
	Mark only one oval.
	Vacuum
	Helium gas
	Carbon dioxide
	None of these
68.	60.X-ray tubes are surrounded by to absorb unwanted radiation
	Mark only one oval.
	Lead
	Glass
	Aluminium
	Oil

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