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

Course Name - - Conventional Radiography and Equipment Course Code - BMRIT203

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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>		
DIDOE		

9.

	Offilite Examinations (Even octivi art-ii) art-ii Examinations 2020 - 2
DIP.ME	
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.Three-phase, 12-puls	se power results in only ripple.
Mark only one oval.	
<u> </u>	
4%	
20%	
30%	

10.	2.Rating of the X-ray tube is directly proportional to
	Mark only one oval.
	kVp
	Size of the focus
	Rotation of the tube
	All of these
11.	3.The quality of X-rays depends on
	Mark only one oval.
	Filtration
	mAs
	Exposure time
	None of these
12.	4.Electric current is measured in
	Mark only one oval.
	Watt
	Erg
	Volt
	Ampere

13.	5.Cooling of the anode housing is described by
	Mark only one oval.
	Angiographic rating chart Thermal characteristic chart Anode heating chart Radiographic rating chart
14.	6.The binding energy of an electron in the K-shell of the tungsten is about
	Mark only one oval.
	80 keV 60 keV 90 keV 70 keV
15.	7.Diagnostic X-ray tubes have an anode angle between Mark only one oval. 20° to 25° angles 3° to 9° angles 12° to 15° angles 15° to 25° angles

16.	8.1 he cloud of electron is known as
	Mark only one oval.
	Heel effect Line focus principle Space charge Effective focal spot
17.	9.Anode rotates at a speed of about
	Mark only one oval.
	100 revolution per minute (rpm) 10,000-20,000 revolution per minute (rpm) 3,000-9,000 revolution per minute (rpm) 18,000-25,000 revolution per minute (rpm)
18.	10.The difference between soft and hard X-rays is of Mark only one oval. Velocity Intensity Frequency Polarization

19.	11. The shortest wavelength of X-rays emitted from X-ray tube depends on
	Mark only one oval.
	The current in the tube Voltage applied to the tube
	The nature of the glass in tube
	The atomic number of the target material
20.	12.When high speed electrons hit target of high atomic number
	Mark only one oval.
	Only heat is produced
	Only continuous X-rays are produced
	Only continuous and characteristic X-rays are produced
	Heat is produced and simultaneously continuous and characteristic X-rays are produced
21.	13.X-rays are emitted
	Mark only one oval.
	From electrons clouds of an atom that has stimulated artificially
	From inside the electrons of an radioactive atom
	Both of these
	None of these

22.	14.The effective energy of the X-ray beam is increased by increasing the
	Mark only one oval.
	Milliampere
	Added filtration
	Second
	None of these
23.	15.Autotransformer operates on the principle of
	Mark only one oval.
	Induction
	Conduction
	Both of these
	None of these
24.	16.The voltage in autotransformer received and then it provides (the secondary voltage) is proportional to the number of turns
	Mark only one oval.
	Directly
	Inversely
	Both of these
	None of these

25.	17.Now a day's 3-phase generators are available to withstand a tube current of
	Mark only one oval.
	500 mA 800 mA
	1000 mA
	2000 mA
26.	18.Rectification means
	Mark only one oval.
	Change AC to DC
	Increasing the voltage
	Decrease the current
	All of these
27.	19.If a circuit produces 12 pulses per cycle, it is known as
	Mark only one oval.
	3-pulse generator
	6-pulse generator
	9-pulse generator
	12-pulse generator

28.	20.X-ray generator provides
	Mark only one oval.
	Electric power to energize X-ray tube
	Mechanism to select technique appropriate for a given examination
	To protect X-ray tube from possible overload situation
	All of these
29.	21.Who was W.C. Roentgen
	Mark only one oval.
	Canadian technologist
	Australian radiologist
	German Physicist
	Farmer
30.	22.Melting point of tungsten target is
	Mark only one oval.
	1480° C
	2800° C
	2000° C
	3370° C

31.	23.The tube housing is internally shielded with	
	Mark only one oval.	
	Aluminium Lead	
	Nickel	
	Molybdenum	
32.	24.K-shell binding energies for tungsten is	keV
	Mark only one oval.	
	1.56	
	6.04	
	37.4	
	69.5	
33.	25.A relay is used to	
	Mark only one oval.	
	Break the fault current	
	Sense the fault	
	Sense the fault and direct to trip the circuit breaker	
	All of these	

34.	26.Over current fault is most likely in
	Mark only one oval.
	Transformer
	Overhead line equipment
	Alternator
	Motors
35.	27.Maximum "grid cut-off" is most common in
	Mark only one oval.
	Parallel grid
	Focussed grid
	Cross grid
	Moving grid
36.	28.Mostly grids have frequencies in the range of
00.	
	Mark only one oval.
	1-50 lines per inch
	60-110 lines per inch
	120-160 lines per inch
	170-210 lines per inch

37.	29.Mostly grids have line density of
	Mark only one oval.
	1-20 lines per cm
	25-45 lines per cm
	50-70 lines per cm
	75-90 lines per cm
38.	30.Grids are generally used in
	Mark only one oval.
	Fatty person
	Thin person
	Children
	Pregnant women
39.	31."Grid cut-off" can be reduced
	Mark only one oval.
	High grid ratio
	Longer F.F.D when using unfocussed grids
	Shorter F.F.D when using unfocussed grids
	None of these

40.	32.Contrast can be improved by
	Mark only one oval.
	Grid
	Air gap technique
	kVp
	All of these
41.	33.The function of the cone in skull radiography is
	Mark only one oval.
	To limit the field of the radiation
	To reduce the exposure
	To increase the life of the X-ray tube
	All of these
42.	34.Function of the grid to
	Mark only one oval.
	Absorb scatter radiation
	Transmit all primary radiation
	Both above
	None of these

43.	35. Grid lines appear on radiograph with
	Mark only one oval.
	Stationary grid Moving grid Both
	None of these
44.	36.The higher the grid ratio, the is the bucky factor.
	Mark only one oval.
	Higher
	Lower
	Half
	No effect
45.	37.As the bucky factor increases, patient dose proportionately.
	Mark only one oval.
	Decreases
	Increases
	Halves
	No effect

46.	38.High-ratio grids are used for examinations.
	Mark only one oval.
	Low kVp
	High kVp
	Both
	None of these
47	20 During fluorescenty the V roy tube energies at
47.	39.During fluoroscopy, the X-ray tube operates at
	Mark only one oval.
	Less than 5 mA
	10-15 mA
	25-35 mA
	Above 60 mA
48.	40.lllumination level during fluoroscopy is measured in
	Mark only one oval.
	Lumen per square meter or lux
	Ampere
	Watt
	None of these

49.	41.The component of X-ray image intensifier are
	Mark only one oval.
	Input phosphor, photo cathode and accelerating anodeElectrostating focusing linesOutput phosphorAll
50.	42.The image intensifier tube works on the principle of
	Mark only one oval.
	Thermionic emission
	Photoemission
	Multiple induction
	None of these
51.	43. The advantages of the image intensification over conventional fluoroscopy are
	Mark only one oval.
	More congenial working condition with less patient dose
	Better image detail and brightness
	Possibility of attaching three viewing system
	All of these

52.	44.The brightness gain of image intensifier is due to
	Mark only one oval.
	Minification gain
	Flux gain
	Both
	None of these
53.	45.Flux gain increases the brightness of fluoroscopy image by a factor of
	Mark only one oval.
	Approx 10
	Approx 25
	Approx 35
	Approx 50
ΕΛ	4/ The diagdy onto see of conventional fly areas any one
54.	46.The disadvantages of conventional fluoroscopy are
	Mark only one oval.
	More patient dose
	Operator has to have dark adaption
	Difficulty in handling the patient
	All of these

55.	47. Fluorescent material used in fluoroscopic screen is made-up of
	Mark only one oval.
	Zn cd sulphide copper activated Calcium tungstate Cesium iodide Zn sulphide
56.	48.In modern image intensifier, the input screen is made-up of
	Mark only one oval.
	Zn cd sulphide-silver activated
	Cesium iodide
	Calcium tungstate
	Zn sulphide
57.	49.Minification gain is
	Mark only one oval.
	Diameter of input phosphor divided by diameter of the output phosphor
	Diameter of the input phosphor multiplied by diameter of the output phosphor
	Diameter of the input phosphor plus diameter of the output phosphor
	Diameter of the input phosphor minus the diameter of the output phosphor

58.	50.Flux gain is
	Mark only one oval.
	Number of output light photon divided by number of input X-ray photons Number of output light photons multiplied by number of input X-ray photons Number of output light photons plus number of input X-ray photons Number of output light photons minus number of input X-ray photons
59.	51.Which of the Following Helps in Reducing Internal Radiation Exposure?
	Mark only one oval.
	Control of Contamination Use Proper Protective Equipment Good Hygiene All of these
60.	52.What Does the Radiation Term ALARA Stand For? Mark only one oval.
	As Low As Reasonably Achievable Accepted Lowest Achievable Radiation Alarms As Long as Radiation is Allowable Allowable Levels of Accepted Radiation

61.	ALARA Concept?
	Mark only one oval.
	Maintenance
	Distance
	Shielding
	Time
62.	54.What is the Device used for Generating Beams of Waves or Particles that Have Parallel Paths?
	Mark only one oval.
	Collimator
	Echocardiography Machine
	FMRI
	Ultrasonography Machine
63.	55.The maximum field of view which can be obtained with a specific radiographic system is generally limited by the
	Mark only one oval.
	Focal spot size.
	Anode size
	Anode angle
	Cathode

6	04.	56.Changing from a 5:1 ratio to a 10:1 ratio grid will increase
		Mark only one oval.
		Patient exposure
		Increase Image contrast
		Required KV or MAS
		All
6	55.	57.Factors which would be appropriate for conventional chest radiography are
		Mark only one oval.
		High contrast film
		0.1 mm focal spot
		120 kV
		None of these
6	56.	58. When a geometric magnification technique is used, as in mammography, it can
		Mark only one oval.
		Increase patient exposure
		Increase scattered radiation
		Decrease blurring of small objects and improve visibility of detail.
		a & c both

67.	59. Which of the following test tools is used for testing the "Congruence of optical and radiation fields"?
	Mark only one oval.
	kVp meter
	Beam alignment test tool
	Focal spot test tool
	Collimator test tool
68.	60.In "congruence of optical and radiation fields" focus to film distance (FFD) is kept at
	Mark only one oval.
	75 cm
	100 cm
	120 cm
	180 cm

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