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

Course Name - - Electrocardiography and Echocardiography Course Code - BPA404

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9.

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M.SC.(ANCS)
M.SC.(MM)
B.A.(Eng)
Answer all the questions. Each question carry one mark.
. 1. The classic ECG changes in myocardial infarction (MI) are:
Mark only one oval.
T-wave inversion
ST-segment elevation
Development of an abnormal Q wave
All of these

10.	2. Tall-tented T waves and widened QRS are seen in:
	Mark only one oval.
	Hyponatremia
	Hyperglycemia
	Hyperkalemia
	Hyperphosphatemia
11.	3. One specific ECG change in hypokalemia (low potassium level) is:
	Mark only one oval.
	U wave (a positive deflection after the T wave)
	ST segment elevation
	Tall peaked T waves
	Increased amplitude and widening of the QRS complex
12.	4. The depolarization stimulus for the normal heartbeat originates in the:
	Mark only one oval.
	Epicardium
	His-bundle areas
	Atrioventricular (AV) nodal
	Sinoatrial (SA) node

13.	5. An ECG report should contain:
	Mark only one oval.
	Rhythm Conduction intervals
	Cardiac axis
	All of these
	All of these
14.	6. A shortened PR interval, slurring (called a delta wave) of the initial QRS deflection, and prolonged QRS duration are charecteristics of:
	Mark only one oval.
	Wolff-Parkinson-White (WPW) syndrome
	Atrial tachycardia
	Left bundle branch block
	Myocardial ischemia
15.	7. ECG charecterized by PR interval which becomes longer with each succeeding ECG complex until there is a P wave not followed by a QRS is seen in:
	Mark only one oval.
	First-degree Atrioventricular Block, type II
	Second-Degree Atrioventricular Block, Type I
	Second-degree Atrioventricular Block, type II
	Third-Degree Atrioventricular Block

16.	8. Ventricular muscle depolarization is represented by:
	Mark only one oval.
	P wave
	T wave
	The QRS complex
	U wave
17.	9. The characteristics of normal sinus rhythm include all the following, except:
	Mark only one oval.
	Rate: 60 to 100 beats/min
	Rhythm: Regular
	P waves: Precede every QRS complex and are consistent in shape
	QRS complex: 0.4 to 0. 8 second
18.	10. Regarding placement of leads when recording ECG all are correct, except:
	Mark only one oval.
	Mark only one oval.
	V1 - 4th intercostal space - right margin of sternum
	V2 - 4th intercostal space - left margin of sternum
	V3 - linear midpoint between V2 and V4
	V4 - 7th intercostal space at the mid clavicular line

19.	11. Normal QRS width is:
	Mark only one oval.
	0.04 to 0.10 second 0.12 to 0.20 second
	0.42 to 0.43 second
	① 0.08-0.12 seconds
20.	12. P wave represents:
	Mark only one oval.
	Depolarization of right ventricle
	Depolarization of both atria
	Depolarization of left ventricle
	Atria to ventricular conduction time
21.	13. Inferior wall ischemia produces changes in leads:
	Mark only one oval.
	aVF
	All of these

22.	14. Identify the rhythm.
	Mark only one oval.
	Bradycardia Normal EEG
	Tachycardia
	First degree heart block
23.	15. In ECG relaxation of ventricles is represented by?
	Mark only one oval.
	P-wave
	T wave
	U wave
	QRS complex
24.	16 What does langthoning of P. ways indicate
۷4.	16. What does lengthening of P wave indicate
	Mark only one oval.
	Myocardial infraction
	Enlargement of atria
	Ventricular enlargement
	Hyperkalamia

25.	17. Which of the following statement is NOT true?
	Mark only one oval.
	P wave indicate atrial contraction
	depressed ST segment indicate hyperkalamia
	T wave represents ventricular repolarization
	QRS complex represents ventricular depolarization
26.	18. ECG was first developed by?
	Mark only one oval.
	Steward
	William Einthoven
	Koch
	Hubbert Mann
	Trubbert Marin
27.	19. Which of the following is the part of ECG?
	Mark only one oval.
	wark only one oval.
	QRS complex
	ST segment
	T wave
	All of these

28.	20. Comment about the axis:
	Mark only one oval.
	Right axis deviation
	Left axis deviation
	Normal axis
	Indetermitant axis
29.	21. Comment about the axis of the following ECG
	Mark only one oval.
	RAD
	LAD
	Normal axis
	Indeterminant axis
30.	22. Comment RATE of the ECG
00.	
	Mark only one oval.
	44 bpm
	110 bpm
	120 bpm
	Cannot be determined

23. The PR interval of the above ECG is
Mark only one oval.
Increased
Decreased
Variable
None of these
24. Comment on the ECG
Mark only one oval.
AMI
Ist degree geart Block
Complete heart block
2nd degree heart block
25. Tall peaked P wave as demonstrated below is seen in
Mark only one oval.
Pulmonary hypertension
Ist degree geart Block
Complete heart block
2nd degree heart block

34.

	Mark only one oval.
	U wave T wave Inverted P wave Inverted T wave
35.	27. Find the correct statement 1. The PR interval is the time from the onset of the P wave to the start of the QRS complex. It reflects conduction through the AV node 2. The normal PR interval is between 120 – 200 ms (0.12-0.20s) in duration (three to five small squares) 3. If the PR interval is > 200 ms, first degree heart block is said to be present 4. PR interval < 120 ms suggests pre-excitation (the presence of an accessory pathway between the atria and ventricles) or AV nodal (junctional) rhythm
	Mark only one oval.
	1 2 None of these All of these
36.	28. This is the classic ECG change in MI (Myocardial Infarction)
	Mark only one oval.
	ST-segment elevation T-wave inversion Development of an abnormal Q wave All of these

26. What does the arrow indicate?

37.	29. Which of the following statement is NOT true?
	Mark only one oval.
	P wave indicate atrial contraction
	Depressed ST segment indicate hyperkalamia
	T wave represents ventricular repolarization
	QRS complex represents ventricular depolarization
38.	30. In which of these conditions can widened QRS and Tall-tented T waves be observed Mark only one oval. Hyponatremia Hyperkalemia Hyperglycemia Hyperphosphatemia
39.	31. ECG identified by the PR interval tends to become longer with every succeeding ECG complex until there is a P wave not followed by a QRS is observed in
	Mark only one oval.
	Third-Degree Atrioventricular Block second-Degree Atrioventricular Block, Type II Second-Degree Atrioventricular Block, Type I First-Degree Atrioventricular Block, Type II

40.	32. A particular ECG change observed in Hypokalemia is
	Mark only one oval.
	ST segment elevation U wave, which is a position deflection after the T wave Tall peaked T waves Widening of the QRS complex and increased amplitude
41.	33. Echocardiography is essentially
	Mark only one oval.
	ultrasound of the heart
	echoing sound of the heart
	another name for a treadmill test
	recording of heart sounds
42.	34. The speed of sound in tissues is:
	Mark only one oval.
	Roughly 1540 m/s
	Roughly 1540 km/s
	Roughly 1540 cm/s
	Roughly 1540 m/min

43.	35. The relationship between propagation speed, frequency, and wavelength is given by the formula:
	Mark only one oval.
	Propagation speed = frequency × wavelength
	Propagation speed = wavelength/frequency
	Propagation speed = frequency/wavelength
	Propagation speed = wavelength × period
44.	36. The frame rate increases with:
	Mark only one oval.
	Increasing the depth
	Reducing sector angle
	Increasing line density
	Adding color Doppler to B-mode imaging
45.	37. Period is a measure of:
	Mark only one oval.
	Duration of one wavelength
	Duration of half a wavelength
	Amplitude of the wave
	None of these

40.	area (PISA) method is based on:
	Mark only one oval.
	Law of conservation of mass
	Law of conservation of energy
	Law of conservation of momentum
	Jet momentum analysis Echocardiography
47.	39. In which situation can you not use the simplified Bernoulli equation to derive the pressure gradient?
	Mark only one oval.
	Peak instantaneous gradient across a nonobstructed mitral valve
	Peak gradient across a severely stenotic aortic valve
	Mean gradient across a severely stenotic aortic valve
	Mean gradient across a stenotic tricuspid valve
48.	40. Which of the following resolutions change with increasing field depth?
	Mark only one oval.
	Axial resolution
	Lateral resolution
	All of these
	None of these

49.	41. With a fixed-focus transducer with crystal diameter 20 mm and wavelength 2.5 mm, what is the depth of the focus?
	Mark only one oval.
	40 m
	30 mm
	40 mm
	4 m
50.	42. A sonographer adjusts the ultrasound machine to double the depth of view from 5 to 10 cm. If sector angle is reduced to keep the frame rate constant, which of the following has changed?
	Mark only one oval.
	Axial resolution
	Temporal resolution
	Lateral resolution
	The wavelength
51.	43. Which of the following properties of a reflected wave is most important in the genesis of a two-dimensional image?
	Mark only one oval.
	Amplitude
	Period
	Pulse repetition period
	Pulse duration

52.	44. Increasing depth will change all of the following except:
	Mark only one oval.
	Pulse duration
	Pulse repetition period
	Pulse repetition frequency
	Duty factor
53.	45. The two-dimensional images are produced because of this phenomenon when
	the ultrasound reaches the tissue:
	Mark only one oval.
	Refraction
	Backscatter
	Specular reflection
	Transmission
54.	46. Attenuation of ultrasound as it travels through tissue is higher at:
	Mark only one oval.
	Greater depth
	Lower transducer frequency
	Blood rather than soft tissue like muscle
	Bone more than air

55.	47. The half-intensity depth is a measure of:
	Mark only one oval.
	Ultrasound attenuation in tissue
	Half the wall thickness in mmChapter 1 3
	Coating on the surface of the transducer
	Half the ultrasound beam width
56.	48. What is the highest pulse repetition frequency (PRF) of a 3 MHz pulsed wave transducer imaging at a depth of 7 cm?
	Mark only one oval.
	21 000 Hz
	2 333 Hz
	11 000 Hz
	2.1 million Hz
57.	49. Examples of continuous wave imaging include:
	Mark only one oval.
	Two-dimensional image
	Volumetric scanner-acquired LV image
	Color flow imaging
	Nonimaging Doppler probe (Pedoff)

58.	50. Which of the following manipulations will increase the frame rate?
	Mark only one oval.
	Increase depth
	Increase transmit frequency
	Decrease sector angle
	Increase transmit power
59.	51. The lateral resolution increases with:
	Mark only one oval.
	Decreasing transducer diameter
	Reducing power
	Beam focusing
	Reducing transmit frequency
60.	52. Axial resolution can be improved by which of the following manipulations?
	Mark only one oval.
	Reduce beam diameter
	Beam focusing
	Reduce gain
	Increase transmit frequency

61.	53. Type of sound used in medical imaging is:
	Mark only one oval.
	Ultrasound
	Infrasound
	Audible sound
	None of these
62.	54. The probe used for imaging the heart is
	Mark only one oval.
	Linear Probe
	Curvilinear Probe
	Phase Array Probe
	Endocavitary Probe
63.	55. Which mode is used for cardiac imaging?
	Mark only one oval.
	A – Mode
	B – Mode
	M – Mode
	3D - Mode

64.	56. Continuous Wave (CW), Pulsed Wave (PW) and Color Flow (CF) are terms used for which kind of ultrasound?
	Mark only one oval.
	3D ultrasound
	Oynamic Ultrasound
	Oppler Ultrasound
	Advanced Ultrasound
65.	57. Echocardiography can be used for
	Mark only one oval.
	remove embolus of the heart
	correctly locate the blockages in the arteries and veins
	assess the baby's heart, anatomy and function
	measure heartbeat
66.	58. Which kind of echocardiography may be recommended to diagnose coronary heart disease?
	Mark only one oval.
	Thoracic Echocardiography
	Stress Echocardiography
	Transesophageal Echocardiography
	3D Echocardiography

67.	59. Which of the following on a color Doppler display is represented in real time?
	Mark only one oval.
	Gray-scale anatomy Flow direction Doppler spectrum Gray-scale anatomy and flow direction
	Gray Scale anatomy and now direction
68.	60. Hemodynamic impact of a given volumetric severity of mitral regurgitation (MR) is increased by:
	Mark only one oval.
	Nondilated left atrium
	Left ventricular hypertrophy
	Presence of concomitant aortic regurgitation
	All of these

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