## **Question Bank**

## **Medical Physics**

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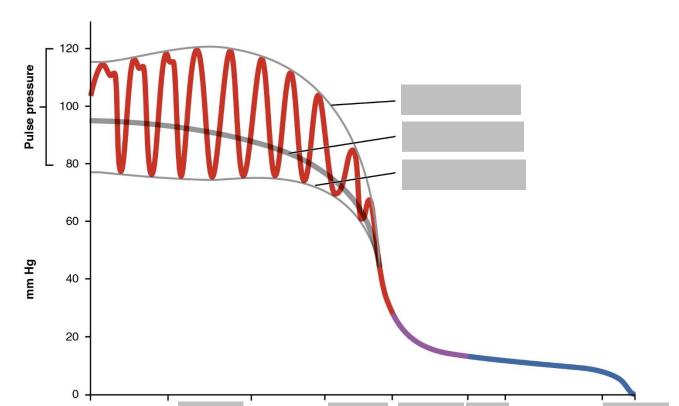
Q1/		
1.	The common unit of sound pressure or intensity	
2.	The closed bell stethoscope is used for listening to lung sounds, which are of	
	than heart sounds	
3.	The volume of the Stethoscope tubs should also be small, and there should be little	
	of sound to the walls of the tube.	
4.	Sounds with frequencies above 20 000 hertz are called	
5.	A device that converts to or vice versa is called transducer.	
6.	The thinner the crystal(transducer), the frequency at which it will oscillate.	
7.	The reference sound intensity Io is	
8.	The act of listening to sounds with a stethoscope is called	
9.	1bel = dB	
10	.When a sound wave passes through tissue, there is some loss in the energy due to	
	the effects	
Q2/		
Percussion in Medicine/The quality of the sound:		

Resonant =

_	What are the main differences between Ultrasound Transducer types?  pplication of A- scans in ophthalmology can be divided into two areas that are
conce	rned with obtaining information for use in the:
Q6/ T	he amount of the reflection echo (Ultrasound wave) depends primarily upon the:
Q7/ C	omparison between A&B Ultrasound Modes.
Q8/	
	absorption coefficient is $2\alpha$ , the intensity decreases more rapidly than the amplitude with .
2.	The closed bell stethoscope is used for listening to
3.	The volume of the Stethoscope tubs should also be
4.	Sounds with frequencies less than 20 hertz are called
5.	Ultrasound often gives more information than an and it is less for the fetus.
6.	The thinner the crystal(transducer), thethe frequency at which it will oscillate.
7.	Threshold intensity level of hearing (TOH) equal to
8.	When sound wave hits the bod y, part of the wave is and part is in to the body.
Q9/ M-sca openii	an showing an abnormality called (a narrowing of the valve ng).

- Q10) Linear transducer uses for various applications, such as:
- Q11) When take Ultrasound Picture of the Body, the time for pulses to be reflected is important parameter why?
- Q12) The amount of the reflection echo (Ultrasound wave) depends primarily upon the:
- Q13) Comparison between A&B Ultrasound Modes.

- Q14/Fluid movement through the capillary wall is the result of two pressures: -
- Q15/The heart rate of a person is 180 pulse/min; calculate the action time and the resting time of heart muscle.
- Q16/Show the typical pressure volume relationship in the urinary bladder, by figure.
- Q17/Types of the Heart valve defect: -
- Q18/Oxygen poisoning occurs when the: -
- Q19/Fill the dark boxes on the below graph with suitable words.



Q20/What are the advantages of trabecular bone over compact bone?

Q21/The cross-section area and thickness increase as you go from neck (cervical) region to the lower back (lumber) region, what is the benefit of this?

Q22/Bursa; - is ...

Q23/what are the main Symptoms of Plantar Fasciitis?

Q24/In photon absorpyiometry technique, three problems with the x-ray technique were largely eliminated by using: -

Q25/COG in newborns is higher than in adults why?