

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE / EEE	Year / Semester : III/V	Format No.	NAC/TLP-07a.13
Subject Code : OMD551	Subject Name : Basics of Biomedical Instrumentation	Rev. No.	02
Unit No : 5	Unit Name : Bio-Chemical Measurement	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	BTL
1	The normal value for the pH is: a) 7.53 b) 7.48 c) 7.40 d) 7.30	L2
2	The respiratory parameter of the arterial blood gas set is the: a) pO ₂ b) O ₂ SAT c) PCO₂ d) HCO ₃ ⁻	L2
3	Acidemia would be indicated by: a) pH less than 7.35 b) PCO ₂ greater than 45 c) HCO ₃ ⁻ more than 26 d) PH more than 7.45	L1
4	In a long-standing metabolic acidosis, the respiratory rate may increase. This is an example of: a) Mixed acidosis b) A low osmolar gap c) Compensation d) A primary respiratory acidosis	L2
5	Respiratory failure is often associated with a(n): a) Low anion gap b) Elevated pO ₂ c) Depressed pCO ₂ d) PCO₂ above 45	L1
6	_____ method is based on the absorption of electromagnetic radiation in the visible, ultraviolet and infrared ranges. a) Cardiotocography b) Ultrasonic therapy c) Spectrophotometry d) Diathermy	L1
7	_____ waves have short wave-length. a) Microwave b) Radio wave c) Gamma rays d) IR waves	L1

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8	The method based on the absorption of radiation of a substance is known as _____ a) Absorption photometry b) Spectrophotometry c) Absorption tonometry d) Absorption spectrophotscopy	L1
9	The ratio of the radiant power transmitted by a sample to the radiant power incident on the sample is known as _____ a) Absorbance b) Transmittance c) Optical density d) Photometric concentration	L1
10	If absorbance is plotted graphically against concentration, the graph is _____ a) Parabola b) Increasing c) Straight line d) Decreasing	L1
11	_____ is not a source of radiant energy. a) Tungsten-mercury lamp b) Tungsten lamp c) Xenon-mercury arc d) Deuterium discharge lamp	L1
12	The blood corpuscles are of _____ kinds. a) 5 b) 4 c) 2 d) 3	L2
13	Blood is stained with _____ stain. a) Methylene blue b) Safranin c) Leishman stain d) Carbol fuchsine	L2
14	Process of formation of blood corpuscles is called _____ a) Haemolysis b) Haemozoin c) Haemopoesis d) Haemoter	L2
15	Graveyard of RBC is _____ a) Spleen b) Liver c) Kidney d) Thymus	L2
16	Which leucocytes release heparin and histamine in blood? a) Neutrophil	

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		b) Basophil c) Eosinophil d) Monocytes	
17		Which blood cells secretes antibody? a) Eosinophils b) Monocytes c) Lymphocytes d) Neutrophils	L2
18		Vitamin essential for blood clotting is _____ a) Vitamin K b) Vitamin A c) Vitamin B d) Vitamin C	L2
19		Hemoglobin is a _____ a) Reproductive pigment b) Respiratory pigment c) Carbohydrate d) Fat	L2
20		Absence of which clotting factor leads to Hemophilia-A? a) Factor VII b) Factor VIII c) Factor IX d) Factor X	L2
21		What prevents the clotting of blood inside blood vessels? a) Heparin b) Serotonin c) Fibrinogen d) Fibrin	L2
22		On the same spectrometer as in question 32, what is the frequency at 118 ppm of ^{15}N ? a) 60.8356055 b) 60.8174751 c) 59.1871755 d) 60.8206020	L1
23		Which of the following is not an IR vibrational mode? a) .Stretching b) Scissoring c) Rocking d) Rolling	L1
24		Which of the following components of a monochromator is the dispersing element? a) .The collimating lens b).The entrance slit c).The diffraction grating d) None of these	L1

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25	Vibrational spectroscopy is a).a large mass on a weak spring b).a flashlight through a prism and shake it c).a class of spectroscopic techniques which analyzes molecular motions d).an Infrared spectroscopy	L1
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