

श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकीसंस्थान, तिरुवनंतपुरम्-11 SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY THIRUVANANTHAPURAM—695 011

ENTRANCE EXAMINATION - ACADEMIC SESSION JANUARY 2019

PROGRAM: PG DIPLOMA IN CARDIAC LABORATORY TECHNOLOGY

Time:90 Minutes	(Se (There are	elect the mos	t appropriate answ e marks for wrong	ver)	Max.Marks: 100
Q1. Which charge	has higher valu	ue?			
a) +2C	b) +5C	c) -5C	d) both b and	l c	·
Q2.A positively cha	argęd body X a	attracts a bo	dy Y then the ch	arge on body Y may	be:
a) Positive	b) Negative	c) Zero	d) both b and	lc	
Q3.A body can be	negatively char	rged by:			
	cess electrons to		Removing some of Removing some r	electrons from it	
Q4. SI unit of elect	ric flux is				• .
a)Tesla	b) Weber	c) Newto	n d) Joi	ule	
Q5.When the dista becomes	nce between th	e charged p	articles is halved	l, the force between t	hem
a) One - fou	erth b) Ha	ılf c)	Double	d) Four times	
Q6. In a capacitor	the increase in	potential in	creases		
a) Charge	b) Inductance	e c)	Magnetic field	d) none of these	
Q7. The geometric	al centre of a s	pherical ref	lecting surface is	called	
a) Centre of	Curvature	b) Focus	c) Pole	d) None of these	

Q8. 7	The ratio of si	ne of the angle of inc	cidence to	o sine	of angle of refra	ction is
	a) Zero	b) Constant	c) (One	d) Inf	linity
Q9. 7	Total Internal	Reflection Occurs v	vhen			
-	b) Angle of	incidence is greater to incidence is smaller incidence is equal to these	than critic	cal ang		
Q10	. The correcti	ve lens used by a per	rson with	myo	pia	
	a) Convex l	ens b) Concav	e lens	c)	Cylindrical lens	d) none of these
Q11.	Which of the	following cannot be	explaine	d by	wave nature of li	ght?
a) Ph	otoelectric eff	ect b) Diffract	ion	c)	Interference	d) Both b and c
Q12.	Dual nature	of radiation is shown	by		·	
	,	on and reflection ctric effect and interfe	erence		Refraction and distribution alone	ffraction
Q13.	Which one o	f the series of hydro	gen spect	rum i	is in visible regio	n?
	a) Lyman so	eries b) Balmer	series	c)	Paschen series	d) Bracket series
_	If the frequer gy if photoele		electric e	kperin	nent is doubled t	hen maximum kinetic
	a) is double	d b) is halved c) t	ecome m	ore th	an doubles d) be	ecome less than double
Q15.	Velocity is a					
	a)Scalar qua	antity b) Vector of	quantity	c)	Both a and b	d) None of these
-	From some hontally then	eight if we drop a p	article an	d sim	ultaneously proj	ect another particle
	b) Dropped	reach surface togethe particle will reach ear particle will reach late these	rlier than			
_	A ball is thro ving remains	_	ms to gr	ound	describing a par	abolic path. Which of the
	a) Speed of c) Vertical	the ball component of velocit	•		energy of the ball tal component of	velocity

Q18. The force that follow inverse square law:		
a) Electrostatic force b) Gravitational force	e c) Both a and b d) None of the	se
Q19. A man getting down a running bus falls for	ward	
a) Due to inertia of rest b) Due to inertia	of motion c) Due to habit d) All the abo	ve
Q20. When the speed of a moving body is double	ed	
4, 140 000	momentum is doubled potential energy is doubled	
Q21. Swimming is possible of the account of		
a) First law of motion b) Second law of mo	tion c) Third law of motion d) All the abo	ve
Q22. In which of the following cases the force m	ay not be required to keep the	
a) Particle going in circlec) The momentum of particle constant	b) Particle going along a straight line d) Acceleration of particle constant	
Q23. An aircraft is moving with a velocity 500m	/s. If all forces acting on it are balanced, th	en
a) It still moves with same velocityc) It will decrease its velocity gradually	b) It will fall down instantly d) All the above	
Q24. Two forces of magnitude F have resultant two forces is	of same magnitude F. The angle between t	he
a) 45° b) 120° c) 60°	d) 240°	
Q25. A plumb line is suspended from the ceiling What will be the angle of inclination with vertic	of a vehicle with horizontal acceleration oal?	f x.
a) $tan^{-1}(x/g)$ b) $tan^{-1}(g/x)$	c) $\cos^{-1}(x/g)$ d) $\cos^{-1}(g/x)$	
Q26. The maximum static frictional force is		
a) Equal to area of surface in contactc) Both a and b	b) Independent of area of surface in contact d) None of the above	t
Q27. Maximum value of static friction is called		
a) Limiting friction b) Rolling friction	c) Normal reaction d) None of the above	.

horizontal, the component of weight parallel to the plane of a block resting on the inclined plane	
a) Decreases b) Remains same c) Increases d) None of the above	
Q29. For equilibrium of a body on an inclined plane of inclination 45°. The coefficient of sta friction will be	tic
a) Greater than one b) Less than one c) Zero d) Less than zero	
Q30. A body of mass 0.1 Kg attains a velocity of 10m/s in 0.1s. The force acting on the body	is
a) 10N b) 100N c) 0.1 N d) 0.01N	
Q31. Which of the following statement about the electron is incorrect?	
 a) It is negatively charged particle b) The mass of electron is equal to mass of neutron c) It is the basic constituent of atoms d) It is a constituent of cathode rays 	l
Q32. Two atoms are said to be isobars if	
 a) They have same atomic same atomic number but different mass number. b) They have same number of electrons but different number of neutrons. c) They have same number of neutrons but different number of electrons. d) Sum of the number of protons and neutrons is same but the number of protons is differ Q33. Which of the following is responsible to rule out the existence of definite paths or trajectories of electrons? 	ent
a) Pauli's exclusion principle b) Heisenberg's uncertainty principle c) Hund's rule of maximum multiplicity d) Aufbau principle	
Q34. If travelling at same speeds, which of the following matter waves have the shortest wavelength?	
a) Electron b) Alpha particle (He ²⁺) c) Neutron d) Proton	
Q35. Identify the pairs which are not isotopes?	
a) $^{12}X_{6,}$ $^{13}Y_{6}$ b) $^{35}X_{17,}$ $^{37}Y_{17}$ c) $^{14}X_{6,}$ $^{14}Y_{6}$ d) $^{8}X_{4,}$ $^{8}Y_{5}$	
Q36. Which of the following has maximum spin?	
a) Electron b) Proton c) Neutron d) All have equal spin	
Q37. Atoms belonging to the same group of periodic table will have	
 a) Same number of protons b) Same number of electrons c) Same number of neutrons d)Same number of electrons in valence shell. 	

Q38. (Of the following pairs	which are meta	elloid e	elements		
	a)Na and K	b) F and Cl	c)	Cu and Hg	(d) Si and Ge
Q39. ⁷	The period number in	the long form	of the	periodic table	is equal	to
	a) Magnetic quantum b) Atomic number of c) Maximum principa d) Maximum azimuti	any element of the land of the land and	the peri per of a	iod my element of t	he perio the peri	d od
	According to the Period to their	iodic Law of ele	ments,	, the variation	in prop	erties of elements is
	a) Atomic masses	b) Atomic num	bers	c) Nuclear ma	isses	d) Valency
		iting together as	one s	pecies and hav	ing cha	racteristics properties is
called	a) Molecule	b) Element		c) Metal	d) Meta	alloid
Q42.;	Which among the foll	lowing is not an	isotop	e of hydrogen	?	
•	a) Protium	b) Ozone		c) Deuterium		d) Tritium
Q43.	The oxidation states (exhibited by hyd	irogen	in its various	compou	nds are:
	a) -1 only b) 2	Zero only	c) +1,-	l and zero	d) +1 o	nly
Q44.	Which one of the folk	owing processes	will p	roduce perma	nent ha	rd water?
	a) Addition of Na₂Sc) Saturation of wat	O ₄ to water er with MgCO ₃		b) Saturation (d) Saturation (of water of water	with CaCO ₃ with CaSO ₄
Q45.	Platinum is					
	a) Ferromagnetic	b) Diamagneti	c	c) Paramagne	etic	d) None of these
Q46.	Which among the fol	lowing is not a :	semico	nductor?		
	a) GaAs b) S	i c) CdS	3	d) Ca		
Q47.	The accumulation of	molecular spec	ies at s	urface rather	than in	the bulk is called
	a) Absorption	b) Adsorption		c) Desorption	า	d) Sorption
Q48.	Which among the fol	lowing operates	in rev	erse bias?		·
	a) Zener diode	b) Photodiode	•	c) Both a and	b	d) None of these

Q49. The Ripple factor of Half wave rectifier is
a) 1.21 b) 0.482 c) 0.707 d) 0.636
Q50. Which among the following is a current controlled device?
a) MOSFET b) BJT c) JFET d) None of these
Q51.A group of similar cells along with intercellular substances that perform a specific functionis called
a) Organ b) Organ system c) Tissue d) None of these
Q52. The cell theory was formulated by:
a) Matthias Schleiden b) Theodore Schwann c) Both a and b d) None of these
Q53. The power house of the cell is
a) Mitochondria b) Golgi apparatus c) Lysosomes d) Vacuoles
Q54. Asthina is a disorder that affects
a) Heart b) Lungs c) Kidney d) Brain
Q55. Which blood group is called 'universal recipients'?
a) A b) B c) AB d) O
Q56. Which vitamin helps in blood coagulation?
a) Vitamin A b) Vitamin B c) Vitamin C d) Vitamin K
Q57. Functional unit of kidneys are:
a) Cortex b) Nephrons c) Ureter d) Calyx
Q58. Arthritis is
 a) Degeneration of skeletal muscles b) Decrease in blood calcium level c) Inflammation of joints d) Rapid contraction of muscles
Q59. The shape of Deccan plateau is:
a) Triangular b) Rectangular c) Square d) Hexagonal

a) Nitric acid b) Sulphuric acid c) Carbonic acid d) Carboxylic acid Q62. Which among the following is used in rocket fuel? a) Liquid hydrogen b) Liquid oxygen c) Both a and b d) None of these Q63. Which ion causes blue baby syndrome? a) SO ₄ ²⁻ b) OH c) NO ₃ d) NH ₄ ⁺ Q64. Which is used as moderator in nuclear reactors? a) Hard water b) Heavy water c) Deionized water d) Mineral water Q65. Brass is an alloy of a) Coppler and zinc b) Copper and nickel c) Nickel and tin d) Zinc and nickel Q66. Water has maximum density at a) 0°C b) 4°C c) 100°C d) 273.15°C Q67. Human circulation was discovered by a) William Harvey b) Jonas Salk c) Louis Pasteur d) Edward Jenner	Q60. The winner of 2017 Nobel 1 lize for physics is:
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Q72. 2ds	$in\theta = n\lambda$ is c	alled			
a)	Bragg's law	b) Stefan's la	W	c) Wien's law	d) Snell's law
Q73. LC	D stands for	,			
a) c)	Light Cryst Liquid Crys	al Display stal Display	b) d)	Liquid Crystal Dio None of these	de
Q74. Me	tallic glasses	are			
a)	Pure metal	b) Alloy	c)	Element d) Gas	
Q75. Wh	ich among t	the following is not a	sha	pe memory alloy?	
a)	Nitinol	b) Cu-Zn alloy	c)	Au- Cd alloy	d) Cu-Al-Ni alloy
Q76. Wh	ich among t	the following is not a	n al	lotrope of carbon?	
a)	Graphite	b) Diamond c) Bu	ckn	ninster fullerene	d) None of these
Q77. For	a supercon	ductor, at transition	ten	perature the resis	tivity changes to
. a)	Infinity	b) One; c) Ze	ro	d) None of the	ese
Q78. Suj	perconducto	ors are			•
a)	Paramagne	etic b) Diamagnetic	c)	Ferromagnetic d)	None of these
Q79. A t	hin insulato	r sandwiched betwee	en t	wo superconductor	's is called
a)) pn junction	n b) Josephson junc	tion	c) Seebeckju	action d) Peltier junction
Q80. Su	per conduct	ing magnets are used	l in		
a) EEG	b) ECG c) M	RI	d) None of th	ese
Q81. W	nich is not a	part of conduction s	yste	em of heart?	
a) SA node	b) AV node c) Br	ındl	e of His d) Scl	nwann cells
Q82. Cir	rculation Sy	stem present in Hun	nan	beings is	
a) Double Ci	rculation b) Single (Circ	ulation c) Triple (Circulation d) None of these
Q83, Pu	lmonary art	tery is a part of			
а) Systemic C	Circulation b) Pulmon	ary	Circulation c) Coro	nary Circulation d) None of these

Q84. Normal Human Blood Pressure is mining
a) 120/80 b) 150/70 c) 100/50 d) 200/100
Q85. Mitral valve is present
a) Between right atrium and right ventricle b) Between left atrium and left ventricle c) Inside aorta d) Inside pulmonary artery
Q86. Tricuspid valve is present
 a) Between right atrium and right ventricle b) Between left atrium and left ventricle c) Inside aorta d) Inside pulmonary artery
Q87. Mitral valve is a
a) Tricuspid valve b) Bicuspid valve c) Semilunar valve d) None of these
Q88. Superior venacava
a) Return oxygenated blood to left atrium b) Return oxygenated blood to right atrium c) Return deoxygenated blood to left atrium d) Return deoxygenated blood to right atrium
Q89. The artery which supplies blood to heart muscles is
a) Pulmonary artery b) Renal artery c) Coronary artery d) None of these
Q90. Heart muscles are:
a) Striated b) Have intercalated disc c) Both a and b d) None of these
Q91. Primary pacemaker of heart is
a) SA node b) Purkinje fibres c) Bundle of His d) AV node
Q92. Instrument used to measure blood pressure
a) Pulse oximeter b) Sphygmomanometer c) Thermometer d) None of these
Q93. Which of the following is not a type of arrhythmia?
a) Bradycardia b) Tachycardia c) Stroke d) Fibrillation
Q94. What is hypertension?
a) Anxiety disorder b) High blood pressure c) Cardiac arrest d) Angina

Q95. Systone pressure in mmrig
a) 80 b) 70 c) 150 d) 120
Q96. Diastolic pressure is due to
a) Contraction of atria b) Contraction of ventricle c) Relaxation of atria d) Relaxation of ventricle
Q97. The membrane enclosing the heart is called
a) Meninges b) Pleura c) Pericardium d) None of these
Q98. Largest artery in the body is
a) Pulmonary artery b) Aorta c) Renal artery d) Carotid artery
Q99. The blood vessel which carries blood from lungs to heart is
a) Superior venacava b) Pulmonary vein c) Inferior venacava d) Pulmonary artery
Q.100. Left ventricle pump blood to which of the following artery
a) Superior venacava b) Pulmonary artery c) Inferior venacava d) Aorta