

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

ENTRANCE EXAMINATION - ACADEMIC SESSION JANUARY 2022

Program: PG Diploma in Blood Banking Technology

Time:90 Minutes

Max.Marks: 100

(Select the most appropriate answer)

(There are no negative marks for wrong answers)

1	The power plant of the cell is	
2	a. Ribosomesb. Golgi ApparatusWhich one of these is caused by virus	c. Endoplasmic Reticulum d. Mitochondria s?
3	a. Malariab. MumpsThe largest corpuscle in the blood	c. Leishmaniasis d. Tuberculois
4	a. Neutrophilb. BasophilFunctional and structural unit of Kid	c. Monocyte d. Eosinophil ney is
	a. Nephronb. Seminiferous Tubules	c. Loop of Henled. Acini
5 6	Down syndrome is due to a. 18 Trisomy b. 21 Trisomy Genetic material of retrovirus is	c. 25 Trisomy d. 31 Trisomy
J	a. DNA b. RNA	c. Nucleic acid d. Nucleoprotein
7	Megakaryocytes take part in	
8	a. Production of Leucocytesb. Production of MesophilsErythropoietin is produced in	c. Production of Plateletsd. Production of Erythrocytes
	a. Kidney b. Pancreas	c. Bone Marrow d. Spleen

9	Antibodies are produced by	
	a. Macrophagesb. T-lymphocytes	c. B-lymphoctesd. Dendritic Cells
10	Normal Adult hemoglobin is	
	a. Hemoglobin Ab. Hemoglobin C	c. Hemoglobin E d. Hemoglobin F
11	What is the life span of RBC	
12	a. 90 daysb. 100 daysThalassemia is a disease due to	c. 110 days d. 120 days defect in
	a. Red Cell Membraneb. Bone Marrow	c. Hemoglobin d. Spleen
13	The minimum time period between is	een two consecutive blood donations
	a. 6 weeksb. 8 weeks	c. 10 weeks d. 12 weeks
14	Which antibody commonly cau	ses hemolytic disease of newborn?
	a. Anti-A b. Anti-B	c. Anti-D d. Anti-H maximum molecular weight?
15	Which immunoglobulin has the	c. IgD
16	a. IgMb. IgGSpecific gravity of blood is	d. IgA
17	a. 1.01 b. 1.05 Agar agar is obtained from whic	c. 3.01 d. 3.05 ch algae
18	a. Fucusb. GelediumA cell without a cell wall is term	c. Polysiphonia d. Laminaria ned as
19	a. Tonoplastb. ProtoplastAnticoagulant used to collect as	c. Anoplast d. Symplast nd store blood in blood bags is
20	a. Citrateb. OxalateAn example of a food borne tox	c. EDTA d. Heparin in is
20	a. Diphteria Toxin b. Tetanus Toxin The pH of blood is	c. Shigella Toxin d. Botulinum Toxin
21	a. 6.1 b. 6.4	c. 7.1 d. 7.4

22	Which one of the following is the gr	aveyard of RBCs?
	a. Gall Bladder b. Kidney	c. Spleen d. Liver
23	Which of the following is NOT a vita	amin?
	a. Folic Acid b. Ascorbic Acid	c. Pantothenic Acidd. Oleic Acid
24	The vitamin which is required for n	naturation of erythrocytes?
	a. B1 b. B4	c. B6 d. B12
25	Sandfly is the vector for	
·	a. Yellow Fever b. Kala azar	c. Malaria d. Filaria
26	Purpura is a condition due to defec	et in
27	a. Red Blood Cellsb. White Blood CellsThe acid present in gastric juice is	c. Platelets d. Gangliosides
28	a. Sulphuric Acidb. Hydrochloric AcidInfective stage of plasmodium in m	c. Nitric Acid d. Oxalic Acid
29	a. Schizontb. MeroziteBreakdown product of haemoglobi	c. Sporozite d. Trophozite n is
30	a. Ironb. BilirubinThe method of separation of prote	c. Ferritin d. Calcium ins is
31	a. Distillationb. CentrifugationSaliva converts starch into	c. Electrophoresis d. Heating
32	a. Maltoseb. GlucoseRoentgen unit is a measure of	c. Lactose d. Fructose
33	a. Beta Raysb. Ultraviolet RaysIncrease in haematocrit is seen in	c. Infrared Rays d. Gamma Rays
34	a. Polycythemiab. LeukaemiaFather of Transfusion Medicine is	
	a. William Harvey b. Karl Landsteiner	c. Alexender Flemingd. Robert Koch

35	The immunoglobulin abundar	nt in colostrum is
	a. IgM b. IgG	c. IgA d. IgE
36	The most abundant element for	ound in our body is
	a. Nitrogen b. Oxygen	c. Carbon d. Hydrogen
37	All are antigen-antibody reacti	on, except
	a. Agglutinationb. Precipitation	c. Flocculation d. Immobilization
38	The confirmatory test for HIV is	nfection
	a. Northern Blotb. Western Blot	c. Eastern Blot d. Southern Blot
39	Who among the following inven	ted the smallpox vaccine?
40	a. Robert Kochb. Robert HookePlants developing in dry condition	
41	a. Xerophytesb. MesophytesOrnithology is the study of	c. Lithophytes d. Hydrophytes
42	a. Insectsb. BirdsThe term Rh used in blood grou	c. Reptiles d. Fish ps is derived from which animal
43	a. Miceb. GoatEosinophilia is common in	c. Sheep d. Monkey
	a. Allergyb. Cancer	c. Infectiond. Malnutrition
44	Photosynthesis occurs in	
	a. Chloroplastb. Golgi Bodies	c. Endoplasmic Reticulum d. Nucleus
45	Which is the most primitive form	of algae
46	a. Green Algaeb. Red AlgaeReticulocytes referes to	c. Brown Algae d. Blue Green Algae
47	a. Immature RBCb. Immature WBCMyelin sheath is the covering of	c. Immature Platelets d. Immature Nerve Cells
	a. Muscle Cells b. Axon	c. Blood Vessels d. Osteocytes

48	The chemical mediating allergic res	sponse is
49	a. Histamineb. AdrenalineIslets of Langerhans are present in	c. Noradrenalined. Catecholamine
50	a. Brainb. StomachThe apparatus used to measure the	c. Liver d. Pancreas amount of inhaled air
	a. Calorimeterb. Spirometer	c. Barometerd. Ventilator
51	Adrenal glands is associated with	
52	a. Pharynxb. PancreasHormone that stimulates heart rate	c. Kidney d. Brain : is
	a. Adrenaline b. Insulin	c. Glucagon d. Gastrin
53	Covering of heart is a. Peritoneum b. Pleural Sac	c. Pericardium d. Perichondrium
54	Largest and thickest heart chambe a. Left Ventricle b. Right Ventricle	r is c. Left Atrium d. Right Atrium
55	Tetanus is caused by	.
56	a. Virusb. ParasiteThe vitamin which is required for c	c. Fungus d. Bacteria alcium absorption
57	a. Vitamin Ab. Vitamin CUrine of a prolonged fasting person	c. Vitamin D d. Vitamin E will have
	a. Ketones b. Glucose	c. Fats d. Amino Acid
58	Arteries carry oxygenated blood ex	c. Hepatic
59	a. Cardiacb. SystemicThe liquid portion of blood after a c	d. Pulmonary
60	a. Plasmab. SerumTranscription is the conversion of	c. Lymph d. Buffy Coat
60	a. RNA to DNA b. DNA to RNA	c. RNA to Protein d. Protein to RNA
61	Mammal can regenerate	
	a. Brain b. Lung	c. Liver d. Kidney

	vessel	r ctiv	e maid miside the blood
	a. Globulin b. Albumin		Hemoglobin Clotting Factors
63	Excess production of growth hormon a condition called	e dı	aring growing stage result in
64	a. Cretinismb. Pituitary DwarfNumber of bones in adult human is		Acromegaly Gigantism
04			204
	a. 204 b. 206		304 306
65	The difference between Prokaryotic a		
	a. Cell Wall	c.	Ribosome
	b. Nuclear Membrane		None of those
66	The majority of CO ₂ in the body is tra	nsp	ported to lungs as
	a. Dissolved in Bloodb. Carbonates		Bicarbonates Attached to Hemoglobin
67	There is an increase in number of RB compensate for	C s	at higher altitude to
	a. High Rate of Destruction		Lower Turn Over
	b. Low Level of Oxygen	•	Higher Requirement of Energy
68	Number of WBC's present in per mm ³	of	blood is
	a. 500-1000		4500-10000
69	b. 2000-3500 Bradycardia is a condition when	d.	12000-15000
	a. Heart Rate is Increasedb. Heart Rate is Reduced		Cardiac Muscles are Contracted
		d.	Cardiac Muscles are
70	High value of BOD (Biological oxygen	Det	Relaxed
70			
	a. Water is highly pollutedb. Water is less polluted	C.	Consumption of organic matter is higher by the microbes
		d.	Water is pure
71	Oxytocin is secreted by		
	a. Adrenal	c.	Ovary
	b. Pituitary		Uterus
72	Bilirubin and biliverdin are the degrae	dati	on products of
	a. Myoglobin		Hemoglobin
72	b. Albumin Calcitonin is a hormone produced by	d.	Plama Protein
73	Calcitonin is a hormone produced by		7014 - 14
	a. Pancreas b. Adrenal		Pituitary Parathyroid

74	A test procedure that uses westegree	13 tube 13
	a. Hematocrit b. ESR	c. Differential Countd. Reticulocyte Count
75	The symbiotic association of fungi an	d algae is called
76	a. Lichenb. RhizomeThe entry of food into the larynx is presented in the larynx is presented.	c. Mycorhizza d. Endomicorhizza revented by
77	a. Diaphragmb. EpiglottisLungs have a large number of narrow	c. Frenulum d. Mitral Valve v tubes called
78	a. Alveolib. BronchusNational voluntary Blood Donation de	c. Bronchioles d. Lingula
	a. 1 st April b. 1 st July	c. 1 st October d. 1 st December
79	Organ transplant rejection may be pr	evented by
	a. Antibodiesb. Immuno Suppresive Drugs	c. New T-cells d. Immuno Stimulatory Drugs
80	Which of the following disease is not water	transmitted by contaminated
	a. Typhoid b. Diphtheria	c. Amoebiasis d. Hepatitis-A
81	Metabolic rate is controlled by	
82	a. Thyroidb. LiverIncrease in intraocular pressure caus	c. Pancreas d. Pituitary
02	a. Colour Blindness b. Night Blindness	
83	Heart beat is initiated by	
84	a. AV Nodeb. Bundle of HISCorpus callosum connects	c. Purkinje Fibres d. SA Node
01	a. Two Cerebral Hemisphereb. Two Ventricles of Brain	c. Two Cerebellar Hemisphered. Two Optic Thalamus
85	Human genome project (HGP) is asso development of a new area in biology	ciated with the rapid called
	a. Biotechnologyb. Bioinformatics	c. Biogeographyd. Bioscience

86	Which is not an iron containing prot	ein?
87	a. Lactoferrinb. TransferrinIn Deoxy Ribonucleic Acid, Adenine l	c. Hemosiderin d. Ceruloplasmin oinds with
88	a. Cytosineb. GuanineWhich one is found in the alimentary	c. Thymine d. Uracil canal of humans?
	a. Pseudomonasb. Rhizobium	c. Bacillus d. Escherichia coli
89	Pharynx is connected to tympanic ca	vity by
90	a. Glottisb. Eustachian TubeDestruction of all microorganisms in	c. Gullet d. Internal Nares cluding spores is called
	a. Disinfectionb. Antisepsis	c. Sterilizationd. Sanitization
91	Centre for sense of smell is	
	a. Cerebullumb. Olfactory lobe	c. Pons d. Mid Brain
92	Prions are pathogens, which cause	
93	a. Typhoidb. Yellow feverFormation of blood cell is known as	c. Creutzfeltd diseased. Syphilis
94	a. Rouleauxb. HemopoeisisWater free of charged particles is	c. Hemolysis d. Phagocytosis
95	a. Radioactiveb. DistilledWhich of the following disease is conf	c. Deionised d. Heavy irmed by widal test
	a. Tuberculosisb. Thyphoid	c. Plague d. Tetanus
96	Which test cannot be performed in se	rum sample?
97	a. Total Lipidsb. Vitamin B12Agglutination of blood refers to	c. Irond. Clotting Factors
98	a. Clot Formationb. Sticking together of RBCsHormone present in the urine in preg	c. Rupture of RBCs d. Inability to form Clot nancy
	a. Progesteroneb. FSH	c. Leutinising Hormone d. Chorionic Gonadotropin

- 99 Diabetes insipidus is a condition due to
 - a. Increased Vasopressin
- c. Increased Insulin
- b. Decreased Vasopressin
- d. Decreased Insulin
- 100 Blood group A individuals have which antibody in plasma
 - a. Anti-A

c. Anti-D

b. Anti-B

d. Anti-H

PGDBBT ANSWER KEY - JAN 2022

1	d		18	b		35	С		52	a		69	b		85	. b
2	b		19	а		36	b		53	С	<u> </u>	70	а		26	
3	C	.	20	d		37	d	<u> </u>	54	a		71	b		86	d
															87	С
4	а		21	d		38	b		55	d		72	С		88	d
5	b		22	С		39	d		56	С	١	73	d	1		
				<u> </u>									ļ.		89	b
6	b.		23	d		40	а		57	a		74	b		90	С
7	С		24	d		41	b		58	đ		75	а			
	<u> </u>		25	<u>_</u>		42	-		F0			76	h .	-	91	b
8	а		25	b		42	d		59	b		76	b		92	С
9	С		26	С		43	а		60	b		77	С			
10			27									70	<u> </u>		93	b
10	а		27	b	• ,	44	а		61	c		78	С		94	С
11	d		28	С		45	d		62	b		79	b			
															95	b
12	С		29	b		46	а		63	d		80	b		96	d
13	d		30	С		47	b		64	b		81	а	٠		
				<u>,</u>								·			97	b
14	С		31	a		48	а		65	а		82	C		98	d
15	а		32	d		49	d		66	С		83	d			
		·		ļ											99	а
16	b	4	33	a		50	b		67	b		84	а		100	b
17	b		34	b		51	С								100	ן ט
1/				~					68	С					<u> </u>	
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