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(एक राष्ट्रीय महत्व का संस्थान, विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार)
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Entrance Examination 2020- PG Diploma in Clinical Perfusion

Sl No	Question	Answer	OptionA	OptionB	OptionC	OptionD
1	"Cell drinking" is called	C	Phagocytosis	Apoptosis	Pinocytosis	Necrosis
2	Anaemia is the deficiency of	C	Leukocytes	Platelets	Haemoglobin	Proteins
3	How much oxygen can 1 gm Haemoglobin carry ?	B	2.3ml	1.34ml	5.6ml	0.50ml
4	In Sickle cell anaemia glutamic acid is replaced by valine. Which one of the following triplets code for valine?	D	AAG	GAA	GGG	GUG
5	The blood circulation was described first by	A	William Harvey	Leeuwenhoek	Louis Pasteur	Gohn Gibbon
6	Which of the following is not a true amphibian animal?	C	Frog	Salamander	Tortoise	Toad
7	Mushroom is a	D	Plant	Lichens	Algae	Fungus
8	Which Vitamin is important in blood clotting?	B	Vitamin A	Vitamin K	Vitamin B	Vitamin D
9	Liver is involved in the production of	C	Lipase	HCL	Urea	Mucus
10	Which of the following is also called "Jelly Fish"	C	Hydra	Physelia	Aurelia	Matrideam
11	World AIDS Day is	A	01-Dec	15-Dec	06-Dec	30-Dec
12	Which of the following is connected with Rh factor ?	C	Erythropoiesis	Haemophilia	Erythroblastosis	Myxoedema
13	Which organ produces enormous amount of heat?	D	Heart	Lungs	Kidney	Liver
14	Hypothermia is	C	Increase in temperature	Decrease in CO ₂	Decrease in temperature	Increase in CO ₂
15	The Pacemaker of heart	B	AV Node	SA Node	Purkinje fibres	Bundle of His
16	Normal Cardiac cycle is	A	0.8sec	1.8sec	8.0sec	0.08sec
17	Largest phylum in animal kingdom	A	Arthropoda	Protozoa	Annelida	Chordata
18	The artery which carries deoxygenated blood	C	Radial artery	Brachial artery	Pulmonary artery	Hepatic artery
19	Insulin is a	A	Peptide	Carbohydrate	Fatty acid	Glycolipid
20	Volume of air remaining in lungs even after forced expiration	B	Tidal Volume	Residual Volume	Vital capacity	Forced expiratory volume
21	Normal tidal volume is	A	500ml	300ml	1500ml	300ml
22	Which of the following is the antigen presenting cell?	C	B cell	RBC	T cell	Mast cell
23	Decrease secretion of growth hormone	B	Cretinism	Dwarfism	Acromegaly	Gigantism
24	The oxygen dissociation curve is	C	Straight line	Circular curve	Sigmoid curve	Rhombus shaped
25	The valve between left atrium and left ventricle is	B	Tricuspid valve	Mitral valve	Semilunar valve	pulmonary valve
26	The letter T- lymphocytes refers to as	C	Thalamus	Thyroid	Thymus	Tonsil
27	Opium is extracted from	A	Papaver Somniferum	Datura stramonium	Belladonna	Cannabis
28	Which ion is involved in blood clotting	A	Calcium	Potassium	Magnesium	Chloride
29	Insufficient blood supply in human body is refer as	A	Ischemia	Hemorrhage	hemostasis	Hyperthermia
30	The normal pH of human blood	C	7.2	6.8	7.4	7.9
31	True about the pericardium.	A	Encloses the heart	Membrane that line the aorta	make in heart valves	found in veins
32	Thrombocytopenia is a condition	B	Increased WBCs	Decreased platelets	Decreased RBCs	Increased RBCs
33	Most abundant immunoglobulin is	C	IgA	IgM	IgG	IgE
34	Albumin produced in	B	Spleen	Liver	Kidney	Erythropoietin
35	Maximum amount CO ₂ transfer in body as	C	Carbide	Carbon monoxide	Bicarbonate	Amylase
36	Number of lobes in right lungs	A	3	4	2	1
37	Pituitary gland is located in	C	Abdomen	Thorax	Cranium	spine
38	The process the stomach muscle contract to propel food through the digestive tract	A	Regurgitation	Secretion	Peristalsis	Synthesis
39	Gas exchange in lungs takes place in	D	Bronchi	Pleura	Capillaries	Alveoli
40	Oxygenated blood is carried from heart by	C	Pulmonary artery	Pulmonary vein	Aorta	Capillaries
41	Cranial nerve that senses the smell is	C	Hypoglossal	Vagus	Olfactory	Glossal
42	Fibrous protein found in the dermis	A	Collagen	Melanin	Heparin	Lipocytes
43	Sternum is connected to ribs by	B	Bony matter	Hyalin cartilage	White fibrous cartilage	Aerolar tissue

44	Life span of WBC is	A	20-30 days	30 days	less than 10 days	120 days
45	Urea is removed by which cycle in uricotelic animals	A	Ornithine cycle	Kelvin cycle	Krebs cycle	None of the above
46	Urine produced in kidney by	B	Diffusion	Countercurrent mechanism	Osmosis	Facilitate transport
47	Arteries that supply blood to the heart is	C	Carotid arteries	Pulmonary arteries	Coronary arteries	Subclavian arteries
48	The substance that lost during dehydration is	B	Calcium chloride	Sodium chloride	Potassium chloride	Magnesium chloride
49	Sunshine vitamin is	B	Vitamin C	Vitamin D	Vitamin A	Vitamin K
50	Respiratory centre is located in	A	Medulla oblongata	Cerebrum	Cerebellum	Spinal cord
51	The basic unit of classification is	B	genus	species	variety	subspecies
52	Binomial nomenclature was introduced by	A	Linnaeus	Darwin	Bentham and Hooker	Aristotle
53	The virus that infects bacteria is called	C	cyanophage	mycophage	bacteriophage	none of these
54	SARS COV 2 Virus has	B	DNA	RNA	both DNA & RNA	either DNA or RNA
55	Bacterial cell wall is made up of	D	xylan	chitin	cellulose	murein
56	Who performed the first successful open heart surgery using cardiopulmonary bypass	C	John Kirklín	Walton Lillehei	John Gibbon	Dennis & Varco
57	Largest ovule in plant kingdom are found in	B	Pinus	Cycas	Thuja	Gnetum
58	Pouched mammals are known as	B	prototherians	metatherians	eutherians	therians
59	Chloragogen cells of earthworm are similar to which organ of vertebrates?	A	Liver	Lung	Kidney	Spleen
60	Aquatic reptiles are	C	ureotelic	ureotelic on land	ammonotelic	uricotelic in water
61	The long bones, that are hollow and connected by air passage are characteristic of	A	aves	mammalia	reptilia	sponges
62	Sympathetic nerves in mammals arise from	D	sacral region	cervical region	3rd, 7th, 9th, 10th cranial nerves	thoracico-lumbar region
63	Pigment haemocyanin is found in	D	chordata	annelida	porifera	mollusca
64	Which of the following snake is not poisonous?	B	Naja- Naja	Python	Hydrophis	Bungarus
65	Birds are	B	cold blooded	homeothermal	poikilothermal	homeopoesis
66	Which of the following are uricotelic animals?	C	Rohu, Frog	Camel, Frog	Lizard, Crow	Eagles, Earthworm
67	Which of the following is correctly matched?	B	Human -Renal portal system	Earthworm - Closed circulatory system	Cockroach - Nephridia	None of the above
68	"Portuguese man of war" is	D	Soldier of world war I	Portuguese soldier	A sponge	A polymorphic, colonial, coelenterata
69	The edible part of cauliflower is	A	inflorescence	leaf	flower	stem
70	Nodules with nitrogen fixing bacteria are found in	B	cotton	gram	mustard	wheat
71	Composite fruit develops from	B	single ovary	inflorescence	apocarpous ovary	pericarp
72	Major protein of connective tissue is	B	myosin	collagen	melanin	keratin
73	Outer covering of cartilage is called	A	perichondrium	periosteum	endosternum	peritoneum
74	In many bacteria, cell membrane is invaginated and folded to form	D	pili	crístae	flagella	mesosome
75	Which of the following is responsible for mechanical support and enzyme transport ?	C	Dictyosome	Cell membrane	Endoplasmic reticulum	Mitochondria
76	Electron microscope was invented by	B	Robert Hooke	Knoll and Ruska	Pasteur	Schwann and Schleiden
77	Molecules that are too large to pass through the pores of a cell membrane may enter the cell by a process known as	B	hydrolysis	pinocytosis	cyclosis	synthesis
78	Proteins are	B	polysaccharides	polyamides	polynucleotides	polyglycol
79	Colchicine prevents the mitosis of cells at which of the following stages?	C	Anaphase	Metaphase	Prophase	Interphase
80	Which of the following induces dormancy ?	D	Auxin	Cytokinin	Both (a) and (b)	Abscisic acid
81	Scurvy is caused due to deficiency of vitamin	D	A	B	E	C
82	Which induces conversion of fibrinogen to fibrin during coagulation ?	B	Plasmin	Thrombin	Plasminogen	Trypsin

83	Which of the following blood group can be given to any patient ?	C	A	B	O	AB
84	Which of the following chamber of heart has the thickest muscular wall ?	B	Left auricle	Left ventricle	Right ventricle	Right auricle
85	What prevents clotting of blood ?	D	haemoglobin	plasma	thrombin	heparin
86	Thickening of arteries due to cholesterol deposition is	A	arteriosclerosis	rheumatic heart	blood pressure	cardiac arrest.
87	Toxic substances are detoxified in human body in	C	kidney	lungs	liver	stomach
88	Heart beat increases at the time of interview because of	C	renin	rennin	adrenaline	Diuretic ADH
89	Acromegaly is due to hypersecretion of	C	Insulin	Thyroxine	Growth hormone	None of these
90	The blood glucose level is commonly expressed as	B	mm. of Hg	milligram per deci litre	parts per million	gram per litre
91	Which gland is called 'the Throne of immunity'?	B	Spleen	Thymus	Pineal	Adrenal medulla
92	Prostate gland secretion helps in formation of	B	larva	semen	cocoon	None of these
93	Cessation of menstrual cycle in women is called	A	menopause	lactation	ovulation	parturition
94	Which disease has XXY chromosome constitution?	C	Down's syndrome	Turner's syndrome	Klinefelter's syndrome	Okazaki syndrome
95	Barr-body in mammals represents	A	One of the two X chromosomes in somatic cells of females	All heterochromatin of male & female cells.	Y chromosomes of male	All heterochromatin of female cells
96	The structure of DNA is	B	linear	double helix	single helix	triple helix
97	Which of the following was most similar to modern man?	D	Java man	Neanderthal man	Homo habilis	Cro-Magnon man
98	Influenza is caused by	A	virus	bacteria	alga	fungus
99	Antigen is a substance which	C	lowers body temperature	destroys harmful bacteria	triggers the immune system	is used as an antidote to poison
100	Introduction of foreign gene for improving genotype is called	C	tissue culture	vernalization	Genetic engineering	eugenics