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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 Blood Banking Technology

Sl No	Question	Answer	OptionA	OptionB	OptionC	OptionD
1	The largest immunoglobulin is	A	IgM	IgA	IgG	IgD
2	Myelin sheath is the covering of	C	Seminiferous tubules	veins	Axon	arteries
3	The largest corpuscle in the blood	D	Neutrophil	Eosinophil	Basophil	Monocyte
4	Under normal conditions which one is completely reabsorbed in renal tubules	D	urea	uric acid	salts	glucose
5	pin worm is the common name for	B	echinococcus granulosis	enterobius vermicularis	ancylostoma duodenale	taenia saginata
6	the normal range of mean corpuscular volume is	D	50 - 60 fL	60- 70fL	70 - 80fL	80 - 90fL
7	Pleotropism is	B	Single gene having single defect	Single gene with multiple effect	Multiple gene influence single effect	Single gene influence random effect
8	Erythropoietin is produced in	D	liver	pancreas	spleen	kidney
9	Which antibody commonly causes hemolytic disease of newborn?	C	Anti A	Anti B	Anti D	Anti H
10	Antibodies are produced by	C	Macrophages	T lymphocytes	B lymphocytes	dendritic cells
11	The metabolic pathway that results in the generation of glucose from non-carbohydrate carbon substrates.	B	glycogenolysis	gluconeogenesis	glycolysis	glycogenesis
12	The vitamin which is required for maturation of erythrocytes?	D	B1	B4	B6	B12
13	Anaplasia is a feature of	B	Embryonic cells	Cancerous cells	Neuronal cells	Hematopoietic cells
14	Hepatitis C virus are from the family of	A	Flaviviridae	Retroviridae	Hepadnaviridae	Rhabdoviridae
15	tsetse fly is the vector for	C	Yellow fever	Kala azar	Trypanosomiasis	Dengue
16	Leishmann stain is a mixture of eosin and ____	A	Methylene blue	Prussian blue	Alcian blue	Giemsa
17	The apparatus used to measure the amount of inhaled air	B	Calorimeter	Spirometer	Barometer	Ventilator
18	Roentgen unit is a measure of ____ rays	C	Beta	Ultraviolet	gamma	Infrared
19	Factor XIII also known as	B	fibrinogen	fibrin stabilizing factor	tissue factor	thrombin
20	Glucagon in pancreas is produced by	B	Acinar cells	Alpha cells	Beta cells	Gamma cells
21	Which structure does NOT play a part in the motion of cells?	C	Cilia	Flagellum	Microvilli	Pseudopodia
22	The function of the centrosome is	A	Formation of spindle fibres	Osmoregulation activity	Binding of cell nucleus	Protein synthesis
23	An example of a food borne toxin is	D	Diphtheria toxin	Tetanus toxin	Shigella toxin	Botulinum toxin
24	Examples of colloid are all except	B	Albumin	Ringer lactate	Hydroxy ethyl starch	Dextran
25	What is the correct sequence?	D	Genus-species-order-kingdom	Genus-order-phyllum-kingdom	Species-genus-order-phyllum	Kingdom-phyllum-class-order
26	Aerobic respiration is not possible in RBC due to	D	absence of golgi	absence of cytoplasm	absence of nucleus	absenc of mitochondria
27	hormone responsible for blood calcium regulation	C	thyroxine	adrenaline	parathormone	thyrotropin
28	Hering breur receptors are found in	B	heart	lung	liver	brain
29	Increase in pressure inside the eye cause	C	colour blindness	night blindness	glaucoma	cataract
30	Flame cells are found in	A	platyhelminthes	aschelminthes	coelentrata	protozoa
31	gene for colour blindness is located on	A	X chromosome	Y chromosome	chromosome 1	chromosome 21
32	acromegaly is a condition where	A	production of growth hormone is increased	production of growth hormone is decreased	production of thyroid hormone is increased	production of thyroid hormone is decreased
33	discharge of bile pigments in urine indicates	C	anemia	diabetes	jaundice	leukemia
34	brain and spinal cord develop from	C	endoderm	mesoderm	ectoderm	dermatom
35	ammonia is converted to urea by	A	liver	kidney	stomach	intestine
36	pellagra is caused due to deficiency of	C	thiamine	riboflavin	Niacin	pyridoxine
37	glands of brunner are seen in	A	duodenum	hepatic duct	gall bladder	pancreatic duct
38	cells that produce hydrochloric acid in stomach is	B	zymogen cells	parietal cells	globlet cells	epithelial cells
39	diabetes insipidus is caused by disorder in	D	kidney	pancreas	thalamus	hypothalamus

40	cell wall of fungi is made up of	A	chitin	peptidoglycan	cellulose	hemicellulose
41	Which of the following is not a viral disease	D	chicken pox	influenza	mumps	relapsing fever
42	skeletal structure in nose tip are an example of	D	ligament	areolar tissue	bone	cartilage
43	The symbiotic association of fungi and algae is called	B	mycorrhiza	lichen	rhizome	endomycorrhiza
44	The entry of food into larynx is prevented by	C	mitral valve	diaphragm	epiglottis	frenulum
45	What is the blood group of the individual with both A & B antigens on RBC and no antibodies in plasma ?	D	A	B	O	AB
46	Vaccine for tuberculosis is	B	MMR vaccine	BCG vaccine	DPT vaccine	OP Vaccine
47	enzyme trypsin is secreted by	C	duodenum	liver	pancreas	stomach
48	muscular contraction in alimentary canal is called	C	deglutination	mastication	peristalsis	none of the above
49	End product of protein digestion is	B	sugar	amino acid	nucleotide	ammonia
50	The thickest wall of heart is	A	left ventricle	right ventricle	left atrium	right atrium
51	Which human organ is called graveyard of RBCs	B	kidney	spleen	bone marrow	liver
52	Which circulation provides nutrients and oxygen to cardiac muscle?	D	pulmonary circulation	systemic circulation	lymphatic circulation	coronary circulation
53	diuresis is a condition characterized by	A	increase in urine volume	decrease in urine volume	increased glucose excretion	decreased glucose excretion
54	A cup shaped cavity for articulation for femur head is	A	acetabulum	glenoid cavity	sigmoid notch	obturator foramen
55	Which of following vertebrae are fused	D	cervical	thoracic	lumbar	sacral
56	Accumulation of uric acid crystals in synovial joint causes	B	Rheumatoid arthritis	Gout	Osteoarthritis	Muscular dystrophy
57	centre of sense of smell is	C	occipital lobe	parietal lobe	olfactory lobe	frontal lobe
58	Widal test is used to detect	B	tuberculosis	typhoid	leprosy	cholera
59	Mumps is a painful swelling of	A	parotid gland	thyroid gland	sublingual gland	thymus gland
60	All are example of cytokines except	A	thrombopoietin	lymphokines	interferon	interleukin
61	The vitamin K dependent coagulation factors are all except	B	II	V	VII	X
62	The right atrioventricular valve is called	A	tricuspid valve	semilunar valve	mitral vlave	bicuspid valve
63	Macrocytic anemia is due to deficiency of	D	niacin	pantothenic acid	riboflavin	folic acid
64	Oxytocin is secreted by	C	adrenals	ovary	pituitary	uterus
65	Which one is a normal human alimentary flora?	D	pseudomonas	yersinia	klebsiella	escherichia
66	Anticoagulant used to collect blood for transfusion	A	sodium citrate	sodium oxalate	EDTA	heparin
67	an enzyme used to generate complementary DNA from an RNA template	D	restriction endonuclease	RNA transcriptase	DNA traanscriptase	reverse transcriptase
68	ornithology is the study of	A	birds	reptiles	fishes	insects
69	Where does spindle fibres attach to during metaphase?	B	kinetosome of the chromosome	kinetochore of the chromosome	centromere of the chromosome	telomere of the chromosome
70	DNA synthesis takes place during _____ phase	D	M phase	G2 phase	G1 phase	S phase
71	Protozoa are classified on the basis of	A	locomotory organelle	shape	number of nuclei	size
72	Egg development without fertilization is known as	A	Parthenogenesis	Metagenesis	Gametogenesis	Oogenesis
73	The stage of prophase I wherein crossing over occurs is	D	Zygotene	Diplotene	Leptotene	Pachytene
74	the event wherein the paternal and maternal chromosomes change their material with each other in cell division	A	Crossing over	Synapsis	Dyad forming	mitosis
75	The Alzheimer disease is linked with the deficiency of	A	acetylcholine	dopamine	glutamic acid	Gamma Amino Butyric Acid (GABA)
76	The respiratory organ in reptiles is	C	gills	skin	lungs	gills & lungs
77	This cell is the longest in the human body	B	Muscle cells	Nerve cells	Gland cells	bone cells
78	This cell organelle does not contain DNA	C	Nucleus	Mitochondria	Lysosomes	chloroplasts
79	This plasma protein is responsible for blood coagulation	A	Fibrinogen	Globulin	Serum amylase	Albumin
80	Which of the following membranes encloses lungs?	A	Pleural membrane	Pericardium	Perichondrium	Periosteum
81	The alveolar epithelium of lungs is	B	ciliated squamous	nonciliated squamous	nonciliated columnar	ciliated columnar
82	The simplest amino acid is	C	Asparagine	Alanine	Glycine	Tyrosine
83	Which of the following amino acids has to be supplemented in the diet?	A	phenylalanine	cysteine	glutamine	asparagine
84	The stage in which chromosomes align on the equator of spindle fiber is	C	Telophase	Anaphase	Metaphase	Prophase
85	Haemophilia is	A	X – linked	Y – linked	Autosomal	none of the above

86	Iodine deficiency can cause	A	Goitre	rheumatoid arthritis	Gout	pituitary adenoma
87	The eye lens is	D	Concave	Convex	Biconcave	Biconvex
88	The innermost layer of the eyeball where the photoreceptors are located are	D	Chloroid	Sclera	Cornea	Retina
89	reabsorption of ions by tubules of kidney is enhanced by	B	cortisol	aldosterone	calciferol	erythropoietin
90	Absence of tyrosinase leads to	A	albinism	phenyl ketonuria	alkaptonuria	gauchers disease
91	Which cranial nerve supply the heart	D	trigeminal	facial	trochlear	vagus
92	The Nobel prize for Medicine 2020 was given to discovery of _____ virus	C	Hepatitis A	Hepatitis B	Hepatitis C	HIV
93	The minimum completed age for blood donation in India is _____ years	C	15	16	18	21
94	Passage of water across a selectively permeable membrane is	A	osmosis	active transport	facilitated diffusion	pinocytosis
95	All diseases are transmitted through blood transfusion except	D	HIV	malaria	Hepatitis B	cholera
96	What is the average life span of human Red blood Cells?	B	60 days	120 days	180 days	240 days
97	Which is a helminth disease?	C	Giardiasis	Sarcoidosis	Filariasis	Amoebiasis
98	The Origin of Species was written by _____	C	Loius Pasteur	Robert Koch	Charles Darwin	Alexander Fleming
99	Vomiting of blood is known as	A	haematemesis	haemoptysis	haematoma	haematochezia
100	Haematocrit is also known as	D	mean corpuscular volume	mean corpuscular hemoglobin	mean corpuscular hemoglobin concentration	packed cell volume