

श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, तिरुवनंतपुरम्-11

SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY,

THIRUVANANTHAPURAM-695 011

ENTRANCE EXAMINATION: ACADEMIC SESSION 2020

PROGRAM: PG DIPLOMA BLOOD BANKING TECHNOLOGY

Duration: 90 Minutes

Maximum Marks: 100

(Select the most appropriate answer; Each question carries one mark)

(There are no negative marking for wrong answer)

- 1. The bacteria causing plague is
 - a. Yersinia pestis
 - b. Staphylococcus aureus
 - c. Campylobacter jejuni
 - d. Treponema pallidum
- 2. Functional and structural unit of kidney
 - a. Nephron
 - b. Seminiferous tubules
 - c. Loop of Henle
 - d. Acini
- 3. Aedes aegypti is a vector for
 - a. Dengue fever
 - b. Relapsing fever
 - c. Malaria
 - d. Filaria
- 4. Elbow joint is an example of
 - a. Ball and socket joint
 - b. Hinge joint
 - c. Pivot joint
 - d. Gliding joint
- 5. Down syndrome is due to
 - a. 21 trisomy
 - b. 25 trisomy
 - c. 18 trisomy
 - d. 31 trisomy

6.	Ge	netic material of retrovirus is
	a.	DNA
	b.	RNA
	C.	Nucleoprotein
	d.	Nucleic acids

- 7. Which one of these is caused by virus?
 - a. Malaria
 - b. Mumps
 - c. Leishmaniasis
 - d. Tuberculosis
- 8. The chemical involved in parkinsons disease is
 - a. Acetyl choline
 - b. Adrenaline
 - c. Dopamine
 - d. Nonadreneline
- 9. Myelin sheath is the covering of
 - a. Muscle cell
 - b. Axon
 - c. Blood vessels
 - d. Osteocytes
- 10. The largest corpuscle in the blood
 - a. Neutrophil
 - b. Basophil
 - c. Monocyte
 - d. Eosinophil
- 11. Which is not a function of liver
 - a. Detoxification
 - b. Synthesis of coagulation factors
 - c. Storage of glycogen
 - d. Formation of insulin
- 12. Under normal conditions which one is completely reabsorbed in renal tubules
 - a. Urea
 - b. Uric acid
 - c. Salts
 - d. Glucose
- 13. Megakaryocytes take part in
 - a. Production of leucocytes
 - b. Production of platelets
 - c. Production of mesophils
 - d. Production of mesangium

14. Diueresis is a condition characterised by

- a. Increased urine volume
- b. Increased glucose excretion
- c. Decreased urine volume
- d. Decreased glucose excretion

15. Purpura is a condition due to defect in

- a. Red blood cells
- b. White blood cells
- c. Platelets
- d. Gangliosides

16. The power plant of the cell is

- a. Ribosomes
- b. Golgi apparatus
- c. Endoplasmic reticulum
- d. Mitochondria

17. Pleotropism is

- a. Single gene having single defect
- b. Single gene with multiple effect
- c. Multiple gene influence single effect
- d. Single gene influence random effect

18. The chemical mediating allergic response is

- a. Adrenaline
- b. Nonadrenaline
- c. Catecholamine
- d. Histamine

19. Antisterility vitamin is

- a. Vitamin K
- b. Vitamin B
- c. Vitamin C
- d. Vitamin E

20. Erythropoietin is produced in

- a. Pancreas
- b. Kidney
- c. Bone marrow
- d. Spleen

21. Antibodies are produced by

- a. Macrophages
- b. Tlymphocytes
- c. B lymphocytes
- d. Dendritic cells

22. N	ormal adult haemoglobin is
а	. Hemoglobin A
b	. Hemoglobin C
С	Hemoglobin E
d	. Hemoglobin F
23. V	/hich antibody commonly causes hemolyt
а	Anti A
L	A_A: D

- ic disease of newborn?
 - b. Anti B
 - c. Anti D
 - d. Anti H
- 24. The vitamin which is required for maturation of erythrocytes?
 - **B1** a.
 - b. B4
 - c. 86
 - d. B12
- 25. Breakdown product of haemoglobin is
 - a. Iron
 - b. Bilirubin
 - c. Ferritin
 - d. Calcium
- 26. The method of separation of proteins is
 - a. Distillation
 - b. Centrifugation
 - c. Electrophoresis
 - d. Heating
- 27. The term genetics was coined by
 - a. Gregor mendel
 - b. Hugo de Vries
 - c. Alexander fleming
 - d. William Bateson
- 28. Anaplasia is a feature of
 - a. Embryonic cells
 - b. Cancerous cells
 - c. Neuronal cells
 - d. Hematopoietic cells
- 29. Sandfly is the vector for
 - a. Yellow fever
 - b. Kala azar
 - c. Malaria
 - d. Filaria

30.	Th	e constituent of blood that retain the fluid inside the blood vessel
	a.	Globulin
	b.	Albumin
	c.	Hemoglobin
	d.	Glucose
31.		shmann stain is a mixture of eosin and
		Methylene blue
		Prussian blue
		Alcian blue
	d.	Giemsa
32	An	ticoagulant used to collect and store blood in blood bags is
J		Citrate
		Oxalate
		EDTA
		Heparin
33.	\$le	eping sickness occurs due to
	a.	
	b,	Leishmania
	C.	Palsmodium
	d.	Borellia
34.	Isle	ets of Langerhans are present in
		Brain
		Stomach
		Ovary
		Pancreas
35.		pH of blood is
		6.1
		6.4
		7.1
	d.	7.4
36.	The	e apparatus used to measure the amount of inhaled air
	a.	Calorimeter
	b.	Spirometer
	C.	
	d.	Ventilator
37.	Fat	her of Immunology is

a. Jennerb. Pavlovc. Bernardd. Landsteiner

38. IT	e function of kupffer cells is	
a.	Secretion of bile	
b.	Storage of bile	
C.	Haemoglobin degradation	
d.	Phagocytosis	
39. Sp	ecific gravity of blood is	
a.	1.01	
b.	1.05	
c.	3.01	
d.	3.05	
40. Th	e brain centre which regulates body temperature is	
a.	Hypothalamus	
b.	Cerebellum	
¢.	Medulla	
	Pons	
41. Sal	iva converts starch into	
a.	Maltose	
b.	Glucose	
	Lactose	
d.	Fructose	
42. The	e acid present in gastric juice is	
a.	Sulphuric acid	
b.	Hydrochloric acid	
c.	Nitric acid	
d.	Oxalic acid	•
	entgen unit is a measure of rays	
a.	Beta	
b.	Ultraviolet	
	Infrared	
d.	Gamma	
	ctive stage of plasmodium in man is Schizont	
	Merozoite	
	Sporozoite	
	Trophozoite	
u.	Πομισέσιτο	
	ease in haematocrit is seen in	
a.	Polycycthemia	
b.	Leukemia	
_	Anemia	
c.		

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	a.	Red cell membrane	
	b.	Bone marrow	
	c.	Haemoglobin	
	d.	Spleen	
47.	. Gl	ucagon in pancreas is produced by	
		Acinar cells	
	Þ	Alpha cells	
	_	Beta cells	
	đ.	Gamma cells	
48.	Th	e father of transfusion medicine is	
	a.	Landsteiner	
	b.	Harvey	
	C.	Fleming	
	d.	Koch	
49.	Re	ticulocyte refers to	
	a.	Immature RBCs	
	b.	Immature WBCs	
	C.	Immature platelets	
	d	Immature nerve cells	
50.	The	e most abundant element found in our body is	
	a.	Nitrogen	
	b.	, , ,	
	c.	Carbon	
	d.	Hydrogen	
51.	The	e generation of glucose from certain non-carbohydrate carbon substrates is	
	a.	Glycolysis	
	b.	HMP pathway	
	C.	Gluconeogenesis	
	d.	Ketogenesis	
52.	The	e immunoglobulin abundant in colostrum is	
	a.	IgA .	
	b.	lgG	
	C.	IgM	
	d.	IgE	
53.	The	e life span of RBC is days	
	a.	30	
	b.	60	
	c.	90	
	d.	120	

46. Thalassemia is a disease due to defect in

54	l. Le	ngthening of long bones in humans occurs in an area of the bone is called
	a.	Epiphysis
	b.	Periosteum
	Ç.	Medullary canal
	d.	Cancellous region
55	. W	hich structure does NOT play a part in the motion of cells?
	a.	Cilia
	b.	Flagellum
	C.	Microvilli
	d.	Pseudopodia
56	. All	are antigen antibody reaction except
	a.	Precipitation
	b.	Flocculation
	C.	Immobilization
	Agglutination	
57	. ELI	SA stands for
	a.	Enzyme lowered Immuno Sorbent Assay
	b.	Enzyme linked Immune Solvent Assay
	C.	Enzyme linked Immuno Sorbent Assay
	đ.	Enzyme lowered Immune Solvent Assay
58	. The	e minimum time period between two consecutive blood donations is
	a.	6 weeks
		8 weeks
	C.	10 weeks
	d.	12 weeks
	_	
59.		teriophage are
	a.	Viruses
	b.	Bacteria precursors
	c.	Prions
	d.	Protozoan
60	\&/L	ich immungglobulte has the manipulus us and substitute 12
οU.		ich immunoglobulin has the maximum molecular weight?
	a.	IMIVI

b. IgGc. IgEd. IgA

a. Fucusb. Gelediumc. Polysiphoniad. Laminaria

61. Agar agar is obtained from which algae

62	. Wi	hich is the most primitive form of algae
	a.	Blue green algae
	b.	Red algae
	c.	Brown algae
	d.	Green algae
63.	. A c	ell without a cell wall is termed as
	a.	Tonoplast
	b.	Protoplast
	C.	Apoplast
	d.	Symplast
64.	The	e function of the centrosome is
	a.	Formation of spindle fibres
	b.	Osmoregulation activity
	C.	Binding of cell nucleus
	d.	Protein synthesis
6 5.	An	example of a food borne toxin is
y •	a.	Diphtheria toxin
	b.	Tetanus toxin
	c.	Shigella toxin
	d.	Botulinum toxin
66.	The	human genome project was launched in the year
	a.	1990
	b.	1993
	C.	1995
	d.	1997
67.	Hae	emoglobin has a structure
	a.	Primary
	b.	Secondary
	C.	Tertiary
	d.	Quarternary
68.		which of the following an anticodon occurs
		t-RNA
		m-RNA
	C.	r-RNA
	d.	s-RNA
69.		ch is the largest cell in the human body?
	a.	Macrophage
	b.	Monocyte
	c.	Ovum

d. Osteocyte

70. W	olffian duct is also known as
а	. Mesonephric duct
b	. Ejaculatory duct
С	. Major sublingual duct
d	. Cystic duct
	yptorchidism is a condition where
a.	One or both testes are not developed
b.	The at Ball three ten to december the the selection
	One or both testes are not formed
d.	One or both testes are rudiment
72. Ph	otosynthesis occurs in
	Chloroplast
	Golgi body
	Endoplasmic reticulum
	Nucleus
73. W	hich enzyme is used in unwinding of DNA?
a.	Ligase
b.	Topoisomerase
c.	Helicase
d.	Exonuclease
-7.4 LA4	
	nich of the following base pairing rule is correct?
a.	Adenine with guanine and thymine with cytosine
b.	DNA base pairing is non-specific
C.	
d.	Adenine with thymine and guanine with cytosine
75. DN	A is synthesised from RNA by the enzyme
a.	DNA polymerase
b.	
c.	DNA convertase
d.	Reverse transcriptase
76 11	
	mans have lobes in the left lung.
a.	3
b.	
C.	•
d.	1
77. Elei	phantiasis is caused by
a.	Filarial worms
b.	Hook worms
	Tapeworms
	Round worm

70	. VVI	nich class has the largest number of species?			
	a.	Fishes			
	b.	Reptiles			
	c.	Insects			
	d.	Mammais			
79.	. All	eles are			
	a.	Alternate forms of genes			
	b.	Linked genes	•		
	c.	Chromosomes that have crossed over			
	d.	Homologous chromosomes			
80.	W	nat is the correct sequence?			
	a.	Genus-species-order-kingdom			•
	b.	Genus-order-phylum-kingdom			
	C.	Species-genus-order-phylum			
	d.	Kingdom-phylum-class-order		•	
				-	
81.	The	e symbiotic association of fungi and algae is called			
	a.	Lichen			
	b.	Rhizome			
	c.	Endocarp			
	d.	Tuber			
82.		osomal RNA is synthesized in			
	a.	Lysozymes	•		
	b.	Nucleolus	•		
	C.	Nucleoplasm	,		
	d.	Ribosomes			
83	Wh	sich one of the following is the graveyard of RBCs?			
U J.	a.	Gall bladder			
	b.	Kidney			
	C.	Spleen	•		
		Liver			
	۵.	· ·			
84.	Wh	ich of the following carries oxygenated blood?			
	a.	Renal vein			
	b.	Splenic vein			
	C.	Hepatic vein	•		
	d.	Pulmonary vein			
85.		lood group contains anibody	,		
		Anti A	•		
		Anti B			
		Both Anti A and Anti B			
	d	Anti Li			

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87. Eosinophilia is common in a. Allery b. Cancer c. Infection d. Malnutrition 88. Pinworm infection is caused by a. Echinococcus granulosis b. Enterobius vermicularis c. Ancyclostoma duodenale d. Fasciola hepatica 89. Which of the following is NOT a vitamin? a. Folic acid b. Ascorbic acid c. Pantothenic acid d. Oleic acid Oleic acid 90. Ornithology is the a. Study of insects b. Study of birds c. Study of fish 91. The number of chromosomes in human body is a. 42 b. 44 c. 45 bl. 46 92. The red, blue and purple colours of most of the plants are due to a pigment called a. Anthocyanin b. Carotene c. Chlorophyll d. Xanthophylls			at			•				
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92. The red, blue and purple colours of most of the plants are due to a pigment called a. Anthocyanin b. Carotene c. Chlorophyll	t	. 45			*					
a. Anthocyanin b. Carotene c. Chlorophyll	ધ	. 46			1			a		
a. Anthocyanin b. Carotene c. Chlorophyll									•	
a. Anthocyanin b. Carotene c. Chlorophyll	92. TI	he red,	, blue and _l	purple colo	urs of mos	t of the p	lants are d	ue to a pigr	nent called	
c. Chlorophyll									•	
	b.	Card	otene							
d. Xanthophylis	c.	Chlo	prophyll	÷						
	d.	Xan	thophylis			•				
	92. †1 a. b. c.	he red, Anti Card	hocyanin otene orophyll	purple colo	urs of mos	st of the p	lants are d	ue to a pigr	nent called	
			itamin is pi	rovided by	the Sunligi	ht to the h	numan bod	y?		
93. Which vitamin is provided by the Sunlight to the human body?	a.	Α								
93. Which vitamin is provided by the Sunlight to the human body? a. A		С								
·	b.	_								
a. A		ט	_							

86. The term Rh used in blood groups is derived from which animal

a. Miceb. Sheepc. Monkey

		•	
94		f the following taxonomic categories which is the highest in hierarchy?	
		Order	
		Species	
	C.	Order	
	d.	Class	
95	. Pla	ants developing in dry conditions are	
	a.	Xerophytes	
	b.	Mesophytes	
	C.	Lithophytes	
	d.	Hydrophytes	
96	. Th	e main buffer system of the human blood is	
	a.	H2CO3 - HCO3	
	b.	H2CO3 - CO32-	
	C.	CH3COOH - CH3COO-	
	d.	NH2CONH2 - NH2CONH+	
97.	W	no among the following invented the smallpox vaccine?	
	a.	Robert Koch	
	b.	Edward Jenner	
	C.	Robert Hooke	
	d.	Louis Pasteur	
98.		e fungal derivative used in the treatment of tuberculosis is	
		Ketoconazole	
		Amphotericin	
		Streptomycin	
	d.	Penicillin	
^^	~		
yy .		sma cells are derived from	
		B cells	
		T cells	
		NK cells	
	đ.	Neural cells .	

The confirmatory test for HIV infection

100.

a. Northern Blotb. Eastern Blotc. Western Blotd. Southern Blot

