

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 Clinical Perfusion

		FIG	gram. Fo Dipioma in Cimicai i citusion
Tim	۱6.	90 Minutes	Max.Marks: 100
1 1111.	10.		elect the most appropriate answer)
		,	reno negativemarks for wrong answers)
	_		
1		"Cell drinking" is called	
		a. Phagocytosis	c. Pinocytosis
		b. Apoptosis	d. Necrosis
2	<u>.</u>	Anaemia is the deficience	y of
		a. Leukocytes	c. Haemoglobin
		b. Platelets	d. Proteins
3	t	1 gm Haemoglobin carri	es of oxygen
Ü	٠.	a. 2.3ml	c. 5.6ml
		b. 1.34ml	d.0.50ml
4	١.		utamic acid is replaced by valine. Which one of the following
		triplets code for valine?	
		a. AAG	c.GGG
		b. GAA	d. GUG
. 5	.	Scientist who firstly expl	ained the blood circulation
•		a. William Harve	c. Louis Pasteur
		b. Leeuwenhoek	
6) .		not a true amphibian animal?
		a. Frog	c. Tortoise
		b. Salamander	d. Toad
7	7.	Mushroom is associated	with
		a. Fern	c. Algae
		b. Lichens	d. Fungi
8	3.	Which Vitamin is effective	e in blood clotting?
•		a. Vitamin A	c. Vitamin B
		h Mitamin K	d Vitamin D

9	_ p	roduction is associated	with the function of liver
	a.	Lipase	c. Urea
-	b.	HCL	d. Mucus
10. Whic	h of	the following is also ca	lled "Jelly Fish"
			c. Aurelia
	b.	Physelia	d. Matrideam
11.World	IA b	DS Day is organized ev	ery year on
	a.	Dec 1	c. Dec 6
	b.	Dec 15	d. Dec 30
12. Name	e of	the disease connected	with Rh factor
		Erythropoiesis	•
	b.	Haemophilia	d. Myxoedema
13. Which		gan produce enormous	amount of heat?
	a.	Heart	c. Kidney
	b.	Lungs	d. Liver
14. Hypo			
			e c. Decrease in temperature
	b.	Decrease in CO2	d. Increase in CO2
15. The F		emaker of heart	
		AV Node	c. Purkinje fibres
	b.	SA Node	d. Bundle of His
16 Norm		ardiac cycle is	
		0.8sec	c. 8.0sec
	b.	1.8sec	d. 0.08sec
17. Large	•	hylum in animal kingdo	
		Arthropoda	c. Annelida
	b.	Protozoa	d. Chordata
18.The a		y which carries deoxyge	
		Radial artery	c. Pulmonary artery
	b.	Brachial artery	d. Hepatic artery
19. Insulir		rmone is a	
		Peptide	c. Fatty acid
	b.	Carbohydrate	d. Glycolipid
20. Volum		_	even after forced expiration
		Tidal Volume	c. Vital capacity
	b.	Residual Volume	d. IRV

21.14011116	או נוי	dai voidific is		
	a.	500ml	c. 150	00ml
	b.	300ml	d. 300)ml
				•
22. Which	of	the following is the antiq	gen pre	esenting cells?
		B cells	c. To	
	-	RBC	d. Ma	st cell
	~.			
23 Decre	ase	secretion of growth hor	rmone	
		-	omega	lv
			antism	•
	~.	21/41/1011		•
24 The ox	rva.	en dissociation curve is	•	
L-7. 1110 O		Straight line		moid curve
		Circular curve	_	ombus shaped
	D.	Circulal Curve	u. ran	ombus shaped
os Thou	(alı	re between left atrium a	nd left v	ventriole is
20. THE Y		Tricuspid valve	ild icit	c. Semilunar valve
		•		d. pulmonary valve
	D.	Mitral valve		u. pulmonary valve
00 Th - I-	44	. T. barraka sada sa safasa ƙ		
26. I ne le		T- lymphocytes refers t		
		Thalamus	c. Thy	
•	b.	Thyroid	d. Tor	1SII
27. Oplum		extracted from		. Dalladanaa
		Papaver Somniferum		c. Belladonna
	b.	Datura stramonium		d. Cannabis
28. Which		involves in blood clottir	19	- Messacium
		Calcium		c. Magnesium
	b.	Potassium		d. Chloride
			t 	!f
29. Insuffi		nt blood supply in huma	n boay	
		Ischemia		c. hemostasis
	b.	Hemorrhage		d. hyperthermia
30		$_{ extstyle }$ is the PH of human blo	ood	
	-	7.2		c. 7.4
	b.	6.8		d. 7.9
31.The pe		ardium membrane can	٠	
		Encloses the heart		c. make in heart valves
	b.	Membrane that line the	aorta	d. found in veins
32. Throm		cytopenia is a condition		
		Increased WBCs		c. Decreased RBCs
	b.	Decreased platelets		d. Increased RBCs

JO. WIUST AD	undant intinunogiopolii	i present is
а	. IgA	c. IgG
b	. IgM	d. lgE
	produced in	
а	Spleen	c. Kidney
• b.	Liver	d. Erythropoietin
	n amount CO2 transfe	r in body as
a.	Carbide	c. Bicarbonate
b.	Carbon monoxide	d. Amylase
	of lobes in right lungs I	
	3	c. 2
b.	4	d. 1
07 57 7		
-	gland is located in	
	Abdominal	c. Cranial
b.	Throacic	d. spinal
20 :	- 41	
38 j:	s the process the stom	ach muscle contract to propel food through the
digestive		
	Regurgitation	c. Peristalsis
D.	Secretion	d. Synthesis
30 Gan ayah	ongo in lungo io in	
	ange in lungs is in Bronchi	• Canillaria
	Pieura	c. Capillaries
D.	rieura	d. Alveoli
40 Oxygenat	ed blood carries from i	heart by
	Pulmonary artery	c. Aorta
	Pulmonary vein	d. Capillaries
υ.	Tallionary veli	u. Capillanes
41. Cranial ne	erve that senses the sn	nell is
		c. Olfactory
	Vagus	d. Glossal
D.	• agao	d. Glossai
42. Fibrous p	rotein found in the dern	nis
	Collagen	c. Heparin
	Melanin	d. lipocytes
٠.	WO.C.IIII	d. iipocytes
43. Sternum is	s connected to ribs by	
	Bony matter	c. White fibrous cartilage
	Hyalin cartilage	d. Aerolar tissue
7	,	
l4.Life span	of WBC is	
•	20-30 days	c. less than 10 days
	30 dave	d 120 days

45. Urea is removed by which cycle is	n uricotelic animals
a. Ornithine cycle	c. Krebs cycle
b. Kelvin cycle	d. None of the above
46. Urine produced by kidney by	
a. Diffusion	c. Osmosis
b. Countercurrent mechai	nism d. Facilitate transport
47. Arteries that supply blood to the h	neart is
a. Carotid arteries	c. Coronary arteries
b. Pulmonary arteries	d. Subclavian arteries
48. The substance that lost during de	ehydration is
a. Calcium chloride	
b. Sodium chloride	d. Magnesium chloride
49. Sunshine vitamin is	
94. • 100	amin A
b. Vitamin D d. Vita	amin K
50. Respiratory centre is located in	
a. Medulla oblongata	c. Cerebellum
b. Cerebrum	d. Spinal cored
51. Heart beat increases at the time of	interview because of
a. Renin c. Adrenaline	3
b. Rennin d. Diuretic Al	DH
52. Virus has	
a. RNA c. Bot	th RNA and DNA
b. DNA d. Eit	her RNA or DNA
53. Largest ovule in plant kingdom a	are found in
a.Pinus	c.Thuja
b.Cycas	d.Gnetum
54. The basic unit of classification is	
a.Genus	c.Subspecies
b.Species	d.Variety
ss Disamist remondature was intr	oduced by
55. Binomial nomenclature was intra a. Linnaeus c. Be	ntham and Hooker
a. Emiliaria	istotle
so but had mammala are known a	ne .
56. Pouched mammals are known a a. Prototherians	c. Eutherians
b. Metatherians	d. Therians
• • • • • • • • • • • • • • • • • • • •	an mainly based on
57. The classification of Linnaeus w	c. Petals
a. Sepals b. Carpels	d. Stamens
p. Calpeis	= -

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us
ens

c. Okazaki syndrome

d. Klinefelter's syndrome

a. Turner's syndrome

b. Down's syndrome

70. Theory of Pangenesis was	s given by					
	c. Darwin					
b. Oparin	d. DeVries					
71 "Homosapiens" implies						
a. Human race	c. Modern man					
b. Human beings	d. None of these					
70 Minus of siesen manguit	a and hat about					
72. Wings of pigeon, mosquit						
b. Atavism	c. Convergentevolution d. All of these					
D. Alavisiii	d. All of these					
	ite by anti venom is an example of					
	ctive immunity c. Naturally acquired passive immunity					
b. Artificially acquired p	assive immunity d. Specific natural immunity					
74 Which of the following di	sease is due to an allergic reaction?					
a. Goitre	c. Skin cancer					
b. Hay fever	d. Rheumatic fever					
75.Inflammatory response, in	n allergy is caused by the release of					
a. Antigen c. Hist	amines					
b. Histones d. Ant	ibodies					
76. Essential oils are those v	vhich					
a. Are essential to the	_					
b. Are used as lubricar						
77. Which of the following is a	a viral disease of poultry birds?					
a. Anthrax	c. Coccidiosis					
b. Ranikhet	d. None of these					
78. Introduction of foreign g	ene for improving genotype is called					
a. Tissue culture	c. Genetic engineering					
b. Vernalization	d. Eugenics					
	which crop plants are enriched with certain desirable					
nutrients is called	Dis festification					
a. Crop protection	c. Bio-fortification d. Bio-remediation					
b. Breeding	d. bio-remodiation					
80. Territoriality occurs as a	result of					
a. Competition	c. Predation					
b. Parasitism	d. Co-operation					
	_					
81.Obligate parasites live o						
81.Obligate parasites live of a. Living host only b. Living host and dead	c. Dead organic matter only					

a. Autotrophs	c. Carnivores
b. Herbivores	d. Decomposers
83.Trophic levels are formed by	'
a. Plants	c. Organisms linked in food chain
b. Animals	d. Carnivores
D. Allinais	d. Carrivoles
-	o seasons is the characteristic feature of
a. Temperate deciduous f	
b. Tropical savannah	d. Coniferous forest
85. Acid rain is due to pollution	
a. Dust	c. SO ₂ and NO ₂
b. Pesticides	d. Carbon particle
86. Deforestation causes	
	Noise pollution
	Air pollution
b. Soil politilon d.	All polition
87. Euthanasia (mercy killing) w	vas first legalized in:
a. Switzerland	c. France
b. Netherlands(Holland)	d. Italy
99 From Whore did Mahetma	Condhi start the famous Dond: Massh?
	Gandhi start the famous Dandi March? Bardoli
	Ahmedabad
89. The person who served a	s the President of India twice, was:
a. Radha Krishnan	c. Zakir Hussain
b. Dr. Rajendra Prasad	d. V.V Giri
	ead of the Government of India?
	Chief Justice of India
b. Prime Minister d.	Attorney General
91. The largest producer of rul	ober is:
	Japan
The state of the s	Malaysia
92. The disease rheumatism	effects:
a. Legs c. Lungs	
b. Ears d. Joints	
93. Weight of blood in the body	
	body or 7% of the total bodyweight
	body or 5% of the total bodyweight
d. None of these	l body or 10% of the bodyweight
G. 110110 01 111000	

82. Food chain starts with

94. The earthquake a. Lactometer b. Seismograph	c. Hygrometer
95. Which of the follo a. Tin b. Mercury	owing metals forms an amalgam with other metals? c. Lead d. Zinc
temperature?	lowing is a non-metal that remains liquid at room
a. Phosphorousb. Bromine	c. Chlorine d. Helium
97. Toxic substance	es are detoxified in human body in
a. Kidney b. Lungs	c. Liver d. Stomach
98. The shoulder b	lade is made of
a. clavicle	c. Ilium
b. Humerus	d. Scapula
99. Bipolar nerve ce	ells are present in
a. Skin tactile co	rpuscles c. Retina of eye
b. Spinal cord	d. All the above
100. Hearing impair	ment results from damage to which part of brain?
a. Frontal lobe b. Parietal lobe	c. Temporal lobe d. Cerebellum

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Program: PG Diploma in Clinical Perfusion Answer Key

estion No.	Correct answer	Question No.	Correct answer	Question No.	Correct answer
1.	C	38.	A	75.	С
2.	C	39.	D	76.	C
3.	В	40.	С	77.	В
1. 2. 3. 4. 5. 6. 7. 8. 9.	D	41.	С	78.	С
5.	A	42.	A	79.	C
6.	С	43.	В	80.	A
7.	A	44.	A	81.	Α
8.	В	45.	A	82.	A
	С	46.	В	83.	С
10.	C	47.	C	84.	A
11.	Α	48.	В	85.	С
12.	С	49.	В	86.	^ A
13.	D	50.	A	87.	В
14.	C	51.	С	88.	D
15.	В	52.	D	89.	В
16.	A	53.	В	90.	A
17.	A.	54.	В	91.	D
18.	С	55.	A	92.	D
19.	Α	56.	В	93.	A
20.	В	57.	D	94.	В
21.	A	58.	Α	95.	В
22.	С	59.	A	96.	В
23.	В	60.	В	97.	С
24.	C	61.	A	98.	D
25.	В '	62.	A	99.	С
26.	С	63.	C	100.	С
27.	A	64.	В		
28.	A.	65.	Α		
29.	A	66.	Α		
30.	С	67.	В		
31.	A	68.	A		
32.	В	69.	В		
33.	С	70.	С		
34.	В	71.	В		
35.	C	72.	C		
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