# SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY,

#### THIRUVANANTHAPURAM-695011

ENTRANCE EXAMINATION: ACADEMIC SESSION JANUARY 2019

PROGRAMME: DIPLOMA IN BLOOD BANK TECHNOLOGY

Time: 90 Minutes

Max. Marks: 100

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

(There are no negative marks for wrong answer)

- 1. Which of the following is due to a congenital defect in structure of hemoglobin?
  - A) Polycythemia
    - B) Methemoglobinemia
    - C) Sickle cell anemia
    - D) Sulphaemoglobinemia
- 2. Number of WBC's present in 1 mm3 of blood is
  - A) 4000-10000
  - B) 500-1000
  - C) 1000-2000
  - D) 20,000 -30,000
- 3. Proteins are hydrolyzed by
  - A) Amylase
  - B) Lipase
  - C) Pepsin
  - D) Zymase
- 4. Down's syndrome is a typical case of
  - A) Trisomy
  - B) Nullosomy
  - C) Gene mutation
  - D) Monosomy
- 5. Mammals can regenerate
  - A) Brain
  - B) Liver
  - C) Lung
  - D) Urinary bladder

#### 6. Genetic material of retrovirus is

- A) DNA
- B) RNA
- C) DNA & RNA
- D) Nucleoprotein complexes

#### 7. Which one is caused by virus?

- A) Malaria
- B) Polio
- C) Plague
- D) Tuberculosis

#### 8. Adrenal gland is associated with

- A) Pharynx
- B) Pancreas
- C) Kidney
- D) Brain

#### 9. The cerebellum is concerned with

- A) Co ordination of muscle movement
- B) Perception
- C) Merhory
- D) Vision

#### 10. Hormone that stimulates heart rate is

- A) Insulin
- B) Adrenalin
- C) Glucagon
- D) Gastrin

#### 11. The function of calcium ions in blood

- A) Anticoagulation
- B) Blood clotting
- C) Nutrition
- D) Maintenance of blood pressure

#### 12. Erythroblastosis Fetalis is a condition due to

- A) ABO group incompatibility between mother & fetus
- B) Rh incompatibility
- C) Other blood group incompatibility
- D) All the above

# 1 3. Erythropoietin is reduced in diseases of

- A) Liver
- B) Kidney
- C) Bone marrow
- D) Spleen

#### 14. Antibodies are produced by

- A) Eosinophils
- B) Macrophages
- C) T Lymphocytes
- D) B Lymphocytes

#### 15. Oxytocin is secreted by

- A) Adrenals
- B) Ovary
- C) Pituitary
- D) Uterus

#### 16. Covering of heart is

- A) Peritonium
- B) Pericardium
- C) Perichondrium
- D) Pleural sac

# 17. Largest and thickest heart chamber is

- A) Left ventricle
- B) Left atrium
- C) Right atrium
- D) Right ventricle

# 18. Metabolic rate is controlled by

- A) Liver
- B) Thyroid
- C) Pituitary
- D) Pancreas

# 19. Which one is found in the alimentary canal of humans?

- A) Pseudomonas
- B) Rhizobium
- C) Bacillus
- D) Escherichia coli

#### 20. Hormone present in the urine in pregnancy

- A) Progesterone
- B) FSH
- C) Leutinising hormone
- D) Chorionic gonadotropin

#### 21. Megakaryocytes take part in

- A) Production of Leucocytes
- B) Production of blood platelets
- C) Transport of Oxygen
- D) Transport of Oxygen and carbon dioxide

#### 22. Blood protein that initiates clotting

- A) Thromboplastin
- B) Prothrombin
- C) Fibrinogen
- D) Fibrin

#### 23. Purpura is a condition due to defect in

- A) Red cells
- B) White cells
- C) Platelets
- D) plasma

#### 24. Systolic pressure coincides with

- A) Ventricular systole
- B) Atrial systole
- C) Ventricular diastole
- D) Atrial diastole

#### 25. Centre for sense of smell is

- A) Cerebellum
- B) Olfactory lobe
- C) Pons
- D) Midbrain

#### 26. The chemical mediating allergic response

- A) Adrenalin
- B) Nor adrenalin
- C) Histamine
- D) Acetylcholine

27.	At the time of fertilization, chromosome number is
_	A) Half
	B) Becomes diploid
	C) Remains haploid
	D) Does not change
28. <b>co</b> n	Excess production of growth hormone during g

# rowing stage result in a

- A) Acromegaly
- B) Gigantism
- C) Pituitary dwarf
- D) Cretinism

#### 29 Normal adult hemoglobin is

- A) Hemoglobin C
- B) Hemoglobin A
- C) Hemoglobin F
- D) Hemoglobin S

# 30. Organ transplant rejection may be prevented by

- A) Antibodies
- B) Immunosuppressive drugs
- C) New T Cells
- D) Immunostimulatory drugs

# 31. Pharynx is connected to tympanic cavity by

- A) Glottis
- B) Gullet
- C) Eustachian tube
- D) Internal nares

# 32. Diabetes inslpidus is a condition due to

- A) Increased vasopressin
- B) Decreased vasopressin
- C) Increased insulin
- D) Decreased insulin

# 33. Bradycardia is a condition when

- A) Heart rate is reduced
- B) Heart rate is increased
- C) Cardiac muscles are contracted
- D) Cardiac muscles are relaxed

34.	Placenta in mammals is formed by A) Allantois
	B) Amnion
	C) Yolk Sac
	D) Chorion
	D) Choholi
35.	The constituent of blood which retain the fluid inside the blood vessel
	A) Globulin
	B) Albumin
	C) Hemoglobin
	D) Clotting factors
36.	Increase in intraocular pressure cause
	A) Colour blindness
	B) Night blindness
	C) Glaucoma
	D) Cataract
37.	Brain and spinal code develop from
	A) Endoderm
	B) Mesodern
	i C) Ectoderm
	D) Dermatome
38.	Bilirubin and biliverdin are the degradation products of
50.	A) Hemoglobin
	B) Myoglobin
	C) Albumin
	D) Plasma
39.	Calcitonin is a hormone produced by
	A) Pancreas
	B) Kidney
	C) Pitutary
	D) Paráthyroid
40.	Prions are pathogens, which cause
	A) Typhoid
	B) Yellow fever
	C) Creutzfeltd disease
	D) Syphilis

## 41. Mumps is a viral disease with painful swelling of A) Thyroid **B) Thymus** C) Sublingual Glands D) Parotid Glands 42. Instrument for counting RBC A) Hematocrit B) Hemocytometer C) Hemoglobinometer D) Hemogram 43. Heart beat is initiated by A) AV node B) Bundle of His C) Purkinje fibers D) SA node 44. A protein deficiency disease A) Kwashiorkor B) Marasmus C) Pellagra D) Cheilosis 45. Formation of blood cell is known as A) Hemolysis B) Rouleaux C) Hemopoiesis D) Phagocytosis 46. There is an increase in number of RBC s at higher altitude to compensate for A) High rate of destruction B) Lower turn over C) Low level of oxygen D) Higher requirement of energy

Agreement to the second state of the second

47. Islets of Langerhans are present in

A) BrainB) StomachC) OvaryD) Pancreas

48.	Lungs have a large number of narrow tubes called
	A) Alveoli
	B) Bronchioles
	C) Bronchi
	D) Lingula
49.	Which is correct about leucocytes
	A) They are red coloured
	B) They can cross capillaries
	C) They are anucleate
	D) Decrease in their number causes leukemia
50.	In Deoxy ribonucleic acid adenine binds with  A) Cytosine
	B) Guanine
	C) Thymine
	, ,
	D) Uracil

#### 51. Tetanus is caused by

- A) Bacteria
- B) Virus
- C) Parasite
- D) Fungus

#### 52. The number of chromosome pairs in human beings

- A) 22
- B) 23
- C) 24
- D) None of the above

#### 53. The mode of inheritance of Christmas disease is

- A) Autosomal Dominant
- B) Autosomal Recessive
- C) X Linked Recessive
- D) X linked Dominant

#### 54. The pigment which determines skin colour

- A) Serotonin
- B) Melatonin
- C) Melanin
- D) Glucagon

-	A) Vitamin A
	B) Vitamin C
	C) Vitamin D
	D) Vitamin E
	D) VILAMINTE
56.	The chemical secreted by gastric mucosal cells
	A) HCI
	B) NaCl
	C) H <sub>2</sub> SO <sub>4</sub>
	D) Na OH
<b>57</b> .	The mature blood cell which has a nucleus
•••	A) RBC
	B) WBC
	C) Platelet
	D) None of the above
58	Transcription is the conversion of
<b>.</b>	A) RNA to DNA
	B) RNA to Protein
•	C) DNA to RNA
	D) Protein to RNA
59.	Agglutination of blood refers to
٠٠.	A) Clot formation
	B) Sticking together of RBCs
	C) Rupture of RBCs
	D) Inability to form clot
80	Number of bones in adult human is
<del>00</del> .	A) 306
	B) 204
	C) 206
	D) 300
	<i>D</i> , 300
61.	Turners syndrome is
	A) 46 XY
	B) 45 XO
	C) 46 XX
	D) 47 XXY
	•
	•

55. The vitamin required for calcium absorption is

#### 62. Which of the following disease is seen in India?

- a. Yellow fever
- b. Chagas disease
- c. Japanese encephalitis
- d. HTLV-1

#### 63. Which of the following is not seen in ARDS?

- a. Stiff lung
- b. Pulmonary edema
- c. Hypoxia
- d. Hypercapnia

#### 64. Prozone phenomenon is due to

- a. Excess antigens
- b. Excess antibodies
- c. Disproportionate antigen and antibody
- d. Hyperimmune reactions

#### 65. The best skin graft for open wounds is

- a. Autograft
- b. Allograft
- c. Homograft
- d. isograft

#### 66. Which one of the following is not used in diagnosis of syphilis?

- a. VDRL
- b. Frei's test
- c. Reagin test
- d. TPHA

#### 67. Which one of the following reduces sweating?

- a. Alpha blocker
- b. Beta blocker
- c. Atropine
- d. Eserine

# 68. Following are advice given to patient who has undergone vasectomy except

- a. Scrotal support
- b. Contraception for 3 weeks-
- c. Bed rest
- d. Semen analysis for 3 months

#### 69. Enlargement of Blind spot is a sign of

- a. Avulsion of optic nerve
- b. Papillitis
- c. Papilledema
- d. Retinal detachment

# 70. Commonest method of sterilization of Hospital generated waste is

- a. Incineration
- b. Autoclaving
- c. Deep burial
- d. Irradiation

#### 71. Aspirin causes the following, except

- a. Decreased platelet adhesions
- b. Increased cholesterol level
- c. Increased bleeding time
- d. Acidosis

#### 72.CT scan was invented by

- a. Geoffery Houndsfield
- b. Eric Storz
- c. John Snow
- d. Takashita Koba

# 73. Orthotolidine test enables estimation in water of the presence of

- a. Combined chlorine
- b. Free chlorine
- c. Both of the above
- d. None of the above

#### 74. HIV is a

- a. Arbovirus
- b. Oncovirus
- c. Flavivirus
- d. Retrovirus

# 75. The mass media with the least effect in changing behavior of a person is

- a. Television
- b. Poster
- c. Films
- d. Health education

76. Sarcolemma is the membrane which covers A) Muscle fibers B) Nerve fibers C) Viscera D) Spinal cord  77. Parkinson's disease is caused by degeneration of neurons that secrete A) Dopamine B) GABA C) Norepinephrine D) Acetylcholine  78. Which hormone has anti insulin effect? A) Cortisol B) Aldosterone C) Calcitonin D) Oxytocin  79. Unconjugated bilirubin is also called A) Prehepatic bilirubin B) Biliverdin C) Urobilinogen D) Total bilirubin 80. Destruction of all microorganisms including spores is called A) Sanitation B) -Antisepsis C) Sterilization D) Disinfection  81. The liquid portion of blood after a clot has formed is called A) Buffy coat B) Serum C) Plasma D) Lymph  82. Blood group A individuals have A) Anti A in serum B) Anti H in serum			
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C) Anti D in serum		C) Anti D in serum	
D) Anti B in serum		D) Anti B in serum	

# 83. Which test cannot be performed in serum sample? A) Iron B) Vit B<sub>12</sub> C) Total lipids D) Clotting factors 84. A biohazard container is used to discard A) Lancet B) Band aid wrapper C) Both A and B D) Food waste

# 85. A test procedure that uses Westegrens tube is

- A) ESR
- B) Hematocrit
- C) Reticulocyte count
- D) Differential count

#### 86. Glycosylated Hb

- A) Causes sickle cell disease
- B) Causes Thalassemia
- C) Is affected by food intake on the day of testing
- D) Indicates blood glucose levels from preceding months

# 87. End products of protein digestion are

- A) Glycrol
- B) Fatty acids
- C) Triglyerides
- D) Amino acids

# 88. Water free of charged particles is

- A) Distilled
- B) Radioactive
- C) Deionized
- D) Heavy

### 89. Which is not an iron containing protein?

- A) Lactoferrin
- B) Transferrin
- C) Hemosiderin
- D) Ceruloplasmin

	90. Atypical lymphocytes at	le zéell ili			
	A) Malaria	aloonia			
	B) Infectious mononu	CIEUSIS	·		
	C) Hepatitis				
	D) HIV				
	91. The symbiotic associat	ion of fungi and a	lgae is called		
	A) Lichen				
	B) Mycorrhiza	•			
	C) Rhizome				
	D) Endomycorrhiza	•			
	92. The difference between	prokaryotic and E	ukaryotic cells is		
	A) Cell wall		•		
	B) Nuclear membrane	<b>e</b>			
	C) Ribosome				
	D) None of these			•	
	93. The entry of food into th	e larynx is preven	ited by		
	A) Mitral valve				
	B):Diaphragm		F		
•	C) Epiglottis	•		A	
• .	D) Frenulum	. •	, ·		
	94. Osteoporosis, an age re	lated disease of s	keletal system may occ	cur due to	
	A) Decreased level of oestrogen				
	B) Accumulation of ur	ric acid leading to ir	nflammation of joints		
	C) Immune disorder a	affecting neuromus	cular junction leading to t	fatgue	
	D) High concentration	of Ca++ and Na+			
	95. Human genome projec	t (HGP) is associa	ted with the rapid dev	elopment of a	
	new area in biology called				
	A) Biotechnology				
	B) Bioinformatics				
	C) Biogeography	*			
	D) Bioscience				
	96. Vaccine for tuberculosi	\$ is		•	
	A) PAS vaccine				
	B) BCG vaccine				
	C) OPV vaccine				
	D) DPT vaccine	•			

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# 97. High value of BOD (Biological oxygen Demand) Indicates that

- A) Water is highly polluted
- B) Water is less polluted
- C) Consumption of organic matter is higher by the microbes
- D) Water is pure

# 98. Which of the following disease is confirmed by widal test

- A) Tuberculosis
- B) Typhoid
- C) Plague
- D) Tetanus

# 99. Which of the following disease is not transmitted by contaminated water

- A) Typhoid
- B) Diphtheria
- C) Amoebiasis
- D) Hepatitis A

#### 100. Corpus callosum connects

- A) Two cerebral hemisphere
- B) Two ventricles of brain
- C) Two cerebellar hemisphere
- b) Two optic thalamus