

**SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY,
THIRUVANANTHAPURAM-695011**

ENTRANCE EXAMINATION: ACADEMIC SESSION JANUARY 2019

PROGRAMME: MD TRANSFUSION MEDICINE

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. The form of malarial parasite which is infective to human is**
 - a. Merozoite
 - b. Hypnozoite
 - c. Gametocyte
 - d. Sporozoite

- 2. Antibodies to HIV are detected after**
 - a. 2-8 weeks
 - b. 3-6 months
 - c. 1-2 years
 - d. 5-10 years

- 3. Which of the following if present in higher levels is protective against coronary heart disease**
 - a. LDL
 - b. HDL
 - c. VLDL
 - d. Chylomicrons

- 4. World Blood Donors day is celebrated on**
 - a. 1st October
 - b. 1st December
 - c. 14th June
 - d. 8th April

- 5. Investigation of an epidemic could reveal**
 - a. Possible source of infection
 - b. Causative agent
 - c. Mode of spread
 - d. All of the above

- 6. Breast milk is rich in**
- IgA
 - IgG
 - IgD
 - IgM
- 7. Intrauterine growth retardation is best detected by**
- Fetal ultrasonography-
 - Cordocentesis
 - Stress test
 - Amniocentesis
- 8. Jaundice occurring within the first 24 hours of birth is most often due to**
- Biliary atresis
 - Rh incompatibility
 - Neonatal hepatitis
 - Congenital rubella
- 9. Live born baby with hemolytic disease of newborns should be transfused with blood of group**
- AB negative
 - AB positive
 - O negative
 - O positive
- 10. Following are seen in congenital rubella except**
- Hydrocephalus
 - Purpura
 - Cataract
 - Mental retardation
- 11. The most sensitive indicator of adequacy of body iron stores is**
- Transferrin
 - Hemosiderin
 - Ferritin
 - Pre-albumin
- 12. All the following are seen in pathogenesis of beta-thalassemia major, except**
- Hypochromic, microcytic anemia
 - Systemic iron overload
 - Normal erythroblasts
 - Skeletal deformities

13. The earliest hormonal deficiency clinically evident in hypopituitarism is

- a. GH
- b. TSH
- c. Gonadotropins
- d. PRL

14. Mental retardation is a feature of dwarfism due to

- a. Hypothyroidism
- b. Hyper-pituitarism
- c. Hypo-pituitarism
- d. All of the above

15. Amenorrhea is a feature of excessive secretion of

- a. LH
- b. FSH
- c. Prolactin
- d. All of above

16. All of the following show strong association with HLA-B27 except

- a. Inflammatory bowel disease
- b. Acute anterior uveitis
- c. Reiter's syndrome
- d. Felter's syndrome

17. The minimal blood loss that cause hypovolemic shock is

- a. 5-10%
- b. 15-20%
- c. 30-40%
- d. 70-80%

18. "Sago Spleen" is seen in

- a. Sickle cell anemia
- b. Amyloidosis
- c. Hemochromatosis
- d. AIDS

19. The most common treatable cause of male infertility is

- a. Varicocele
- b. Cryptorchidism
- c. Epididymal cyst
- d. Hyperprolactinemia

20. Which of the following changes is suggestive of pre-cancerous lesion

- a. Hypertrophy
- b. Dyslasia
- c. Aplasia
- d. Hyperplasia

21. Most common site of ectopic pregnancy is

- a. Fallopian tubes
- b. Ovary
- c. Broad ligament
- d. Abdominal cavity

22. Progesterone is produced by

- a. Corpus luteum
- b. Corpus albicans
- c. Endometrium
- d. Anterior pituitary

23. All are true about eclampsia of pregnancy except

- a. D.I.C.
- b. Convulsions
- c. Common in multiparous women
- d. Can develop frank coma

24. Kernicterus is caused by

- a. Bile salts
- b. Unconjugated bilirubin
- c. Conjugated bilirubin
- d. All of the above

25. Delayed eruption of teeth occurs in

- a. Rickets
- b. Neonatal tetanus
- c. Cretinism
- d. Down's syndrome

26. Australia antigen is associated with the following infection

- a. HIV
- b. HCV
- c. HBV
- d. CMV

27. Total body iron content is

- a. 10-15 gms
- b. 8-14 gms
- c. 2-6 gms
- d. 16-18 gms

28. Classic hemophilia is due to deficiency of---

- a. Factor II
- b. Factor V
- c. Factor VII
- d. Factor VIII

29. The commonest cause of death in Beta Thalassemia patients is mainly due to

- a. Tissue anoxia
- b. Hepato-splenomegaly
- c. Shock
- d. Iron overload

30. Maternal alpha-fetoprotein is raised in

- a. Neural tube defects
- b. Diabetes
- c. Fetal cardiac defects
- d. Rubella

31. Carpal bone which fractures commonly is

- a. Scaphoid
- b. Lunate
- c. Pisiform
- d. Hamate

32. Salk vaccine is

- a. Live vaccine
- b. Live attenuated vaccine
- c. Killed vaccine
- d. Toxoid

33. X-ray emit

- a. Gamma rays
- b. Alpha rays
- c. Beta rays
- d. Electromagnetic waves

34. The hemoglobin to appear first in the fetus is

- a. HbA
- b. HbA₂
- c. HbF
- d. Hb Gower

35. Capsule of a joint is attached to the bone by

- a. Fibrous band
- b. Ligaments
- c. Synovium
- d. Trabeculae

36. Antigen trapping cells are

- a. Monocytes
- b. Macrophages
- c. Lymphocytes
- d. NK cells

37. Uveitis is characterized by all, except

- a. Mucopurulent discharge
- b. Small pupil
- c. Moderate pain
- d. Marked tenderness

38. Fructose in semen is produced by

- a. Prostate
- b. Seminal vesicle
- c. Testes
- d. Epididymis

39. Physiological jaundice of newborn is characterized by all, except

- a. Jaundice on 2nd day of birth
- b. Jaundice at birth
- c. Jaundice ends by 8th day of birth
- d. Kernicterus is not common

40. The commonest cause of hematemesis and melena is

- a. Chronic peptic ulcer
- b. Acute peptic ulcer
- c. Gastric carcinoma
- d. Cirrhosis of liver

41. The last organ to putrefy in a male body is

- a. Heart
- b. Liver
- c. Kidney
- d. Prostrate

42. The P-wave of the ECG occurs

- a. At the beginning of atrial contraction
- b. After the end of atrial contraction
- c. At the beginning of ventricular contraction
- d. At the end of ventricular contraction

43. Decubitus ulcer in a case of uterine prolapse occurs mainly due to

- a. Infection
- b. Friction
- c. Venous congestion
- d. Malignant change

44. Which hematological changes are not encountered in DIC

- a. Thrombocytopenia
- b. Low FDP
- c. Prolonged bleeding time
- d. Afibrinogenemia

45. Most common childhood intra cranial tumour is

- a. Glioma
- b. Meningioma
- c. Medulloblastoma
- d. Neuroblastoma

46. Following are absolute indication for Caesarian section except

- a. Placenta previa Type III B
- b. Eclampsia
- c. Cervical fibroid
- d. Ca. cervix

47. Which of the following deformity does not interfere with speech?

- a. Cleft lip
- b. Cleft palate
- c. Deafness
- d. Tongue tie

48. Drug of choice in prophylaxis of gout is

- a. Aspirin
- b. Probenecid
- c. Colchicine
- d. Azathioprine

49. Esophageal hiatus in diaphragm is at the level of which vertebra?

- a. T 8
- b. T 10
- c. T 12
- d. L 1

50. If both the parents are AB blood group, then the child cannot be

- a. A group
- b. B group
- c. AB group
- d. O group

51. Phrenic nerves are present in which mediastinum?

- a. Anterior
- b. Middle
- c. Posterior
- d. None of the above

52. The HLA genes are located on chromosomes

- a. 5
- b. 6
- c. 16
- d. X-chromosome

53. Recombinant DNA technology was first manipulated in

- a. Pseudomonas
- b. Klebsiella
- c. Mycoplasma
- d. E. coli

54. Erythropoietin is produced by

- a. Kidney
- b. Liver
- c. Bone marrow macrophages
- d. All of the above

55. Life span of a normal erythrocyte is

- a. 90 days
- b. 120 days
- c. 150 days
- d. 70 days

56. The last sinus to appear is

- a. Maxillary
- b. Ethmoid
- c. Frontal
- d. Sphenoidal

57. Bone age is best estimated based on X-rays of

- a. Hand
- b. Skull
- c. Vertebra
- d. Pelvis

58. Intrauterine blood transfusion is indicated in which of the following

- a. Intra-uterine growth retardation
- b. Hydrops fetalis
- c. Ectopic pregnancy
- d. Twins

59. Exchange transfusion of newborns is commonly indicated in

- a. Physiological jaundice
- b. ABO incompatibility
- c. Rh incompatibility
- d. Post-term baby

60. Effective vaccine is available for

- a. Hepatitis B
- b. Leprosy
- c. Malaria
- d. HIV

61. Scabies is caused by

- a. Tick
- b. Louse
- c. Mite
- d. Flea

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. Athlete's foot refers to

- a. Traumatic foot ulcers
- b. Extensive corns
- c. Fungal infections
- d. Furunculosis

77. Syphilis can be transmitted through following routes, except

- a. Blood transfusion
- b. Anal sex
- c. Moist kiss
- d. I.M. injections

78. Hutchinson's teeth refers to abnormalities of

- a. Incisors
- b. Canines
- c. Pre-molars
- d. Molars

79. The first clinical manifestation of leprosy is usually

- a. Hypopigmented patch
- b. Hypoesthesia
- c. Nerve thickening
- d. Tender nerves

80. If a patient is found to have HIV infection, his prognosis is best assessed by

- a. Total leukocyte count
- b. Titre of HIV antibodies
- c. CD-4 lymphocyte count
- d. Generalized muscle wasting

81. Bone marrow transplant recipients should be given following vaccines, except

- a. MMR
- b. OPV
- c. Pneumococcal
- d. H. Influenzae

82. The most common cause of diarrhea in infants and children are

- a. V. cholera
- b. Rota virus
- c. Salmonella
- d. Shigella

83. The malignancy most commonly seen in AIDS is

- a. B cell lymphoma
- b. Burkitt's lymphoma
- c. Kaposi's sarcoma
- d. Leukemia

84. Cirrhosis is characterized by

- a. Central necrosis
- b. Diffuse fibrosis with nodularity
- c. Fatty hepatocytes
- d. Drop out necrosis

85. Anti-histaminic with least sedative effect is

- a. Chlorpheniramine
- b. Terfenadine
- c. Astemizole
- d. Propmazine

86. In nephritic syndrome all serum proteins are decreased, except

- a. Albumin
- b. Transferrin
- c. Ceruloplasmin
- d. Fibrinogen

87. The first test to be conducted in primary infertility is

- a. VDRL
- b. Post-coital test
- c. Semen analysis
- d. Lateral vaginal wall smear

88. Which of the following day is considered as Doctor's day

- a. 1st April
- b. 1st July
- c. 1st September
- d. 1st November

89. The headquarters of World Health Organization is at

- a. New York
- b. Rome
- c. Geneva
- d. Paris

90. Vitamin K dependant clotting factors are all, except

- a. Factor II
- b. Factor V
- c. Factor IX
- d. Factor X

91. Normal portal venous pressure is

- a. 3 – 4 mm Hg
- b. 7 – 10 mm Hg
- c. 15 – 20 mm Hg
- d. 30 – 40 mm Hg

92. The most common site of carcinoma of pancreas is

- a. Head
- b. Body
- c. Tail
- d. Islet cells

93. The most common hematological disorder following gastrectomy is

- a. Megaloblastic anemia
- b. Iron deficiency anemia
- c. Dimorphic anemia
- d. Folate deficiency

94. The bacteria implicated in etiology of peptic ulcer is

- a. Campylobacter jejuni
- b. Acinetobacter
- c. Mycobacterium arium
- d. Helicobacter pylori

95. Anemia of chronic renal failure is usually

- a. Normocytic
- b. Macrocytic
- c. Microcytic
- d. Hemolytic

96. The SA node is predominantly supplied by

- a. Right coronary artery
- b. Left coronary artery
- c. Anterior descending artery
- d. Circumflex coronary artery

97. PDA is more common in all of the following, except

- a. Congenital rubella
- b. Preterm
- c. Post-maturity
- d. High altitudes

98. Cardiomegaly is usually maximum in

- a. MS
- b. MS & MR
- c. AR
- d. TR

99. The following enzyme are elevated in acute pericarditis, except

- a. SGPT
- b. SGOT
- c. LDH
- d. CK-MB

100. The most common type of Bronchogenic carcinoma is

- a. Squamous cell carcinoma
- b. Adenocarcinoma
- c. Oat cell carcinoma
- d. Small cell carcinoma

