

**SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY, TRIVANDRUM**

**ENTRANCE EXAMINATION: NOVEMBER 2017**

**PROGRAMME: MD TRANSFUSION MEDICINE**

**Duration: 90 Minutes**

**Total Marks: 100**

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

**(There is no negative marking)**

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1. Increased rouleaux formation is seen in
  - a. Multiple myeloma
  - b. Chronic myeloid leukemia
  - c. Acute lymphatic leukemia
  - d. Chronic lymphatic leukemia
  
2. Increased osmotic fragility is a feature of
  - a. Sickle cell anemia
  - b. Thalassemia
  - c. Hereditary spherocytosis
  - d. G-6PD deficiency
  
3. Patient with anemia had increased HbA2 and HbF. He is likely to have
  - a. Sickle cell anemia
  - b. Alpha thalassemia
  - c. Beta thalassemia
  - d. Sideroblastic anemia
  
4. The earliest feature of primary biliary cirrhosis is
  - a. Pruritis
  - b. Jaundice
  - c. Clubbing
  - d. Spider naevi
  
5. Following are X-linked disorders except:
  - a. Hemophilia-A
  - b. Fabry's disease
  - c. G-6-PD deficiency
  - d. Myotonic dystrophy
  
6. Recombinant DNA technology was first manipulated in
  - a. Pseudomonas
  - b. E. coli
  - c. Klebsiella
  - d. Mycoplasma

7. In DNA molecule, Adenine pairs with
  - a. Uracil
  - b. Guanine
  - c. Cytosine
  - d. Thymine
  
8. Chorionic villus biopsy is best done at
  - a. 4-8 weeks
  - b. 8-12 weeks
  - c. 12-16 weeks
  - d. 16-20 weeks
  
9. The major site of maturation of B-lymphocytes is
  - a. Bone marrow
  - b. Tonsils
  - c. Lymph node
  - d. Peyer's patches
  
10. Peripheral blood lymphocytes are predominantly made of
  - a. Plasma cells
  - b. T-cells
  - c. B-cells
  - d. Pre B cells
  
11. The largest immunoglobulin is
  - a. IgM
  - b. IgG
  - c. IgA
  - d. IgD
  
12. The only immunoglobulin which crosses the placenta is
  - a. IgM
  - b. IgA
  - c. IgG
  - d. IgE
  
13. Antigenic difference between same species are called
  - a. Allo-antigen
  - b. Xeno-antigen
  - c. Poly-antigens
  - d. Iso-antigens

14. The most common cause of chronic abdominal pain is
- Peptic ulcer syndrome
  - Irritable bowel syndrome
  - Chronic psychogenic pain
  - Worm infestations
15. Peripheral neuropathy due to excess vitamin is seen with
- Pyridoxine
  - Vitamin E
  - Vitamin A
  - Pantothenic acid
16. PO<sub>2</sub> of arterial blood is reduced in
- Histotoxic hypoxia
  - Anemic hypoxia
  - Carbon monoxide poisoning
  - Hypoxic hypoxia
17. A Swan Ganz catheter measures
- CVP
  - Right atrial pressure
  - Pulmonary artery pressure
  - Aortic pressure
18. The major ejection force in vomiting is provided by
- Stomach
  - Reverse peristalsis of intestines
  - Diaphragm
  - Abdominal muscles
19. By phototherapy bilirubin excretion is increased in
- Liver
  - Skin
  - Urine
  - Sweat
20. Which is not a feature of hypoxia
- Increased cerebral blood flow
  - Pulmonary vasodilation
  - Increased blood lactate
  - Increased cardiac output

21. Epidemiology involves study of
- Distribution of disease
  - Determinants of disease
  - Application to control disease
  - All of the above
22. Prevalence rate is greatly affected by
- Incidence
  - Attack rate
  - Fatality rate
  - Duration of disease
23. Haphazard occurrence of disease from time to time is called
- Endemic
  - Epidemic
  - Sporadic
  - Pandemic
24. Vaccine prepared from two or more strains is called
- Autogenous
  - Toxoid
  - Polyvalent
  - Attenuated
25. National AIDS control programme was established in
- 1987
  - 1990
  - 1992
  - 1996
26. The form of malarial parasite which is infective to human is
- Merozoite
  - Hypnozoite
  - Gametocyte
  - Sporozoite
27. Antibodies to HIV are detected after
- 2-8 weeks
  - 3-6 months
  - 1-2 years
  - 5-10 years

28. Which of the following if present in higher levels is protective against coronary heart disease
- LDL
  - HDL
  - VLDL
  - Chylomicrons
29. World Blood Donors day is celebrated on
- 1<sup>st</sup> October
  - 1<sup>st</sup> December
  - 14<sup>th</sup> June
  - 8<sup>th</sup> April
30. Investigation of an epidemic could reveal
- Possible source of infection
  - Causative agent
  - Mode of spread
  - All of the above
31. Breast milk is rich in
- IgA
  - IgG
  - IgD
  - IgM
32. Intrauterine growth retardation is best detected by
- Fetal ultrasonography
  - Cordocentesis
  - Stress test
  - Amniocentesis
33. Jaundice occurring within the first 24 hours of birth is most often due to
- Biliary atresia
  - Rh incompatibility
  - Neonatal hepatitis
  - Congenital rubella
34. Live born baby with hemolytic disease of newborns should be transfused with blood of group
- AB negative
  - AB positive
  - O negative
  - O positive

35. Following are seen in congenital rubella except
- Hydrocephalus
  - Purpura
  - Cataract
  - Mental retardation
36. The most sensitive indicator of adequacy of body iron stores is
- Transferrin
  - Hemosiderin
  - Ferritin
  - Pre-albumin
37. All the following are seen in pathogenesis of beta-thalassemia major, except
- Hypochromic, microcytic anemia
  - Systemic iron overload
  - Normal erythroblasts
  - Skeletal deformities
38. The earliest hormonal deficiency clinically evident in hypopituitarism is
- GH
  - TSH
  - Gonadotropins
  - PRL
39. Mental retardation is a feature of dwarfism due to
- Hypothyroidism
  - Hyper-pituitarism
  - Hypo-pituitarism
  - All of the above
40. Amenorrhea is a feature of excessive secretion of
- LH
  - FSH
  - Prolactin
  - All of above
41. All of the following show strong association with HLA-B27 except
- Inflammatory bowel disease
  - Acute anterior uveitis
  - Reiter's syndrome
  - Felter's syndrome

42. The minimal blood loss that cause hypovolemic shock is
- 5-10%
  - 15-20%
  - 30-40%
  - 70-80%
43. "Sago Spleen" is seen in
- Sickle cell anemia
  - Amyloidosis
  - Hemochromatosis
  - AIDS
44. The most common treatable cause of male infertility is
- Varicocele
  - Cryptorchidism
  - Epididymal cyst
  - Hyperprolactinemia
45. Which of the following changes is suggestive of pre-cancerous lesion
- Hypertrophy
  - Dyslasia
  - Aplasia
  - Hyperplasia
46. Most common site of ectopic pregnancy is
- Fallopian tubes
  - Ovary
  - Broad ligament
  - Abdominal cavity
47. Progesterone is produced by
- Corpus luteum
  - Corpus albicans
  - Endometrium
  - Anterior pituitary
48. All are true about eclampsia of pregnancy except
- D.I.C.
  - Convulsions
  - Common in multiparous women
  - Can develop frank coma

49. Kernicterus is caused by
- Bile salts
  - Unconjugated bilirubin
  - Conjugated bilirubin
  - All of the above
50. Delayed eruption of teeth occurs in
- Rickets
  - Neonatal tetanus
  - Cretinism
  - Down's syndrome
51. Athlete's foot refers to
- Traumatic foot ulcers
  - Extensive corns
  - Fungal infections
  - Furunculosis
52. Syphilis can be transmitted through following routes, except
- Blood transfusion
  - Anal sex
  - Moist kiss
  - I.M. injections
53. Hutchinson's teeth refers to abnormalities of
- Incisors
  - Canines
  - Pre-molars
  - Molars
54. The first clinical manifestation of leprosy is usually
- Hypopigmented patch
  - Hypoesthesia
  - Nerve thickening
  - Tender nerves
55. If a patient is found to have HIV infection, his prognosis is best assessed by
- Total leukocyte count
  - Titre of HIV antibodies
  - CD-4 lymphocyte count
  - Generalized muscle wasting



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

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

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

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

58. The malignancy most commonly seen in AIDS is

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

59. Cirrhosis is characterized by

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

60. Anti-histaminic with least sedative effect is

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

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

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

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

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

63. Which of the following day is considered as Doctor's day
- 1<sup>st</sup> April
  - 1<sup>st</sup> July
  - 1<sup>st</sup> September
  - 1<sup>st</sup> November
64. The headquarters of World Health Organization is at
- New York
  - Rome
  - Geneva
  - Paris
65. Vitamin K dependent clotting factors are all, except
- Factor II
  - Factor V
  - Factor IX
  - Factor X
66. Normal portal venous pressure is
- 3 – 4 mm Hg
  - 7 – 10 mm Hg
  - 15 – 20 mm Hg
  - 30 – 40 mm Hg
67. The most common site of carcinoma of pancreas is
- Head
  - Body
  - Tail
  - Islet cells
68. The most common hematological disorder following gastrectomy is
- Megaloblastic anemia
  - Iron deficiency anemia
  - Dimorphic anemia
  - Folate deficiency
69. The bacteria implicated in etiology of peptic ulcer is
- Campylobacter jejuni
  - Acinetobacter
  - Mycobacterium avium
  - Helicobacter pylori

70. Anemia of chronic renal failure is usually
- Normocytic
  - Macrocytic
  - Microcytic
  - Hemolytic
71. The SA node is predominantly supplied by
- Right coronary artery
  - Left coronary artery
  - Anterior descending artery
  - Circumflex coronary artery
72. PDA is more common in all of the following, except
- Congenital rubella
  - Preterm
  - Post-maturity
  - High altitudes
73. Cardiomegaly is usually maximum in
- MS
  - MS & MR
  - AR
  - TR
74. The following enzyme are elevated in acute pericarditis, except
- SGPT
  - SGOT
  - LDH
  - CK-MB
75. The most common type of Bronchogenic carcinoma is
- Squamous cell carcinoma
  - Adenocarcinoma
  - Oat cell carcinoma
  - Small cell carcinoma
76. Phrenic nerves are present in which mediastinum?
- Anterior
  - Middle
  - Posterior
  - None of the above

77. The HLA genes are located on chromosomes
- 5
  - 6
  - 16
  - X-chromosome
78. Recombinant DNA technology was first manipulated in
- Pseudomonas
  - Klebsiella
  - Mycoplasma
  - E. coli
79. Erythropoietin is produced by
- Kidney
  - Liver
  - Bone marrow macrophages
  - All of the above
80. Life span of a normal erythrocyte is
- 90 days
  - 120 days
  - 150 days
  - 70 days
81. The last sinus to appear is
- Maxillary
  - Ethmoid
  - Frontal
  - Sphenoidal
82. Bone age is best estimated based on X-rays of
- Hand
  - Skull
  - Vertebra
  - Pelvis
83. Intrauterine blood transfusion is indicated in which of the following
- Intra-uterine growth retardation
  - Hydrops fetalis
  - Ectopic pregnancy
  - Twins

84. Exchange transfusion of newborns is commonly indicated in
- Physiological jaundice
  - ABO incompatibility
  - Rh incompatibility
  - Post-term baby
85. Effective vaccine is available for
- Hepatitis B
  - Leprosy
  - Malaria
  - HIV
86. Scabies is caused by
- Tick
  - Louse
  - Mite
  - Flea
87. Which of the following disease is seen in India?
- Yellow fever
  - Chagas disease
  - Japanese encephalitis
  - HTLV-1
88. Which of the following is not seen in ARDS?
- Stiff lung
  - Pulmonary edema
  - Hypoxia
  - Hypercapnia
89. Prozone phenomenon is due to
- Excess antigens
  - Excess antibodies
  - Disproportionate antigen and antibody
  - Hyperimmune reactions
90. The best skin graft for open wounds is
- Autograft
  - Allograft
  - Homograft
  - Isograft

91. Which one of the following is not used in diagnosis of syphilis?
- VDRL
  - Fel's test
  - Reagin test
  - TPHA
92. Which one of the following reduces sweating
- Alpha blocker
  - Beta blocker
  - Atropine
  - Eserine
93. Following are advice given to patient who has undergone vasectomy except
- Scrotal support
  - Contraception for 3 weeks
  - Bed rest
  - Semen analysis for 3 months
94. Enlargement of Blind spot is a sign of
- Avulsion of optic nerve
  - Papillitis
  - Papilledema
  - Retinal detachment
95. Commonest method of sterilization of Hospital generated waste is
- Incineration
  - Autoclaving
  - Deep burial
  - Irradiation
96. Aspirin causes the following, except
- Decreased platelet adhesions
  - Increased cholesterol level
  - Increased bleeding time
  - Acidosis
97. CT scan was invented by
- Geoffery Houndsfield
  - Eric Storz
  - John Snow
  - Takashita Koba

98. 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

99. HIV is a

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

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

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

