

SREE CHITRA FIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY, TRIVANDRUM

ENTRANCE EXAMINATION: NOVEMBER, 2016

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)

1. Increased basal body temperature with menstrual cycles is due to
 - a. Estrogen
 - b. Progesterone
 - c. LH
 - d. FSH

2. Increased tortuosity of endometrial glands is seen in
 - a. Secretory phase
 - b. Proliferative phase
 - c. Menstrual phase
 - d. Reparative phase

3. The most common symptoms in post-menopausal woman is
 - a. Vulval atrophy
 - b. Decreased breast size
 - c. Hot flushes
 - d. Osteoporosis

4. Oral contraceptives act by
 - a. Inhibiting fallopian tube motility
 - b. Thickening cervical mucosa
 - c. Inhibiting ovulation
 - d. All of the above

5. The normal percentage of mobile sperms in semen is
 - a. 20%
 - b. 40%
 - c. 60%
 - d. 80%

6. In Graves disease the thyroid follicle is lined with
 - a. Cuboidal epithelium
 - b. Flattened cells
 - c. Columnar cells
 - d. Many layer of cells

7. Testosterone in the testis is produced by
 - a. Sertoli cells
 - b. Germinal cells
 - c. Leydig cells
 - d. Peg cells

8. The contrast medium used in MRI is
 - a. TDA
 - b. Gadolinium
 - c. Renograffin
 - d. Myodil

9. Most common type of fracture skull is
 - a. Linear
 - b. Basilar
 - c. Compound
 - d. Depressed

10. The most common source of subdural hematoma is
 - a. Venous blood
 - b. Arterial blood
 - c. Capillary ooze
 - d. Rupture of sinus

11. Indications for lumbar puncture include all except
 - a. To obtain CSF sample
 - b. To inject drugs
 - c. To reduce idiopathic increased intracranial pressure
 - d. All of the above

12. The most common site of brain abscess is
- Frontal lobe
 - Parietal lobe
 - Temporal lobe
 - Cerebellum
13. The commonest complication of ovarian tumour is
- Malignancy
 - Haemorrhage
 - Rupture
 - Torsion
14. Marfan's syndrome is associated with all of the following, except
- Aortic stenosis
 - Atrial septal defect
 - Aortic regurgitation
 - Mitral valve prolapsed
15. Tetany is indicative of
- Hyponatraemia
 - Hyperkalaemia
 - Hypocalcaemia
 - Hypochloremia
16. Sterilization by autoclaving is achieved by
- Dry heat
 - Moist heat
 - Chemical agents
 - Steam under pressure
17. Carpet tunnel syndrome is often encountered in all of the following except
- Rheumatoid arthritis
 - Pregnancy
 - Conn's syndrome
 - Myxoedema

18. Transmission of HIV is not possible by
- Transfusion of blood and blood products
 - Mother to fetus transmission
 - Sharing food with HIV infected patients
 - Sharing of needles for injections
19. Treatment of choice for Hemophilia A is
- Fresh Frozen plasma
 - Cryoprecipitate
 - Cryo poor plasma
 - Factor VIII concentrates
20. The most reliable indicator of progress of labour is
- Descent of presenting part
 - Cervical dilatation
 - Uterine contraction
 - Rupture of membrane
21. Cardiac manifestation that occurs in Diabetes Mellitus is
- Cardiomyopathy
 - Pericardial effusion
 - Atrial septal defect
 - Pulmonary hypertension
22. Budd chiari syndrome is occlusion of
- Inferior vena cava
 - Renal vein
 - Portal vein
 - Hepatic vein
23. The tissue which is most sensitive and vulnerable to hypoxia in human beings is
- Heart
 - Brain
 - Kidney
 - Liver

24. Angular stomatitis is encountered in the deficiency of

- a. Riboflavin
- b. Thiamine
- c. Niacin
- d. Pyridoxine

25. The obstetric complication of insulin dependent diabetes mellitus includes all, except

- a. Pre-eclamptic toxemia
- b. Ante-partum hemorrhage
- c. Maternal infection
- d. Congenital malformation

26. The most commonest type of blood transfusion reaction is

- a. Hemolytic transfusion reaction
- b. Transfusion associated Graft-vs Host disease
- c. Non-hemolytic febrile transfusion reaction
- d. Transfusion transmitted HIV

27. True pelvis refers to

- a. Upper part of pelvis
- b. Lower part of pelvis
- c. Either of these
- d. Neither of these

28. Commonest site of intestinal atresia is

- a. Duodenum
- b. Jejunum
- c. Ileum
- d. Colon

29. Which test is not mandatory to be carried out in a donated unit of blood?

- a. HIV
- b. HBsAg
- c. Malaria
- d. Bacteria

30. ABO blood group is discovered by
- Phillip Levine
 - William Harvey
 - Karl Landsteiner
 - Alexander Weiner
31. Which of the following is not a freeze dried vaccine?
- BCG
 - Measles
 - Polio
 - Mumps
32. Elevated level of cold agglutinins are found in
- Good Pasture's syndrome
 - Sarcoidosis
 - Primary atypical pneumonia
 - SLE
33. Petechiae in scurvy is due to
- Platelet dysfunction
 - Thrombocytopenia
 - Endothelial dysintegrity
 - Clotting factor deficiency
34. Pain in acute appendicitis is commonly referred to
- Right shoulder
 - Umbilicus
 - Right groin
 - External genitalia
35. At which week do internal organs form in the fetus
- 6
 - 8
 - 12
 - 24

36. All of the following are derivatives of ectoderm except

- a. Skin
- b. Sclera of eyes
- c. Sweat glands
- d. Distal part of anus

37. The HLA type associated with ankylosing spondylitis is

- a. D4
- b. DR4
- c. B27
- d. DR3

38. T4/T8 ratio reversal is seen in

- a. T-cell lymphoma
- b. AIDS
- c. Hairy cell leukemia
- d. Infectious mononucleosis

39. The ideal temperature for storage of packed red cells is

- a. 4 to 8°C
- b. 0 to -18°C
- c. 20 to 24°C
- d. 10 to 18°C

40. Notching of ribs is seen in all, except

- a. Coarctation of aorta
- b. Tetralogy of Fallot
- c. Thrombotic occlusion of abdominal aorta
- d. Aortic regurgitation

41. C-reactive protein is not raised in

- a. Tuberculosis
- b. Osteoarthritis
- c. Rheumatoid arthritis
- d. Pneumonia

42. Multiple myeloma is a disease of
- Red cells
 - White cells
 - Platelets
 - Plasma cells
43. Plasmapheresis is useful in
- Myasthenia Gravis
 - Gullian Barre syndrome
 - Both of the above
 - None of the above
44. Earlier sign of puberty in males is
- Increased length of penis
 - Testicular enlargement
 - Increased size of glans penis
 - Appearance of pubic hair
45. All are tests for ovulation, except
- Basal body temperature
 - Cervical mucus study
 - Ultrasonography
 - Cramer's test
46. 90% of the nasal bleeding occurs from
- Anterior inferior part of nasal septum
 - Posterior part of nasal septum
 - Posterior part of lateral wall
 - Anterior part of lateral wall
47. The most frequent cause of post partum hemorrhage is
- Coagulation failure
 - Anemia
 - Uterine atony
 - Injury to genital tract

48. In a Rh (-ve) mother who has delivered a Rh (+ve) baby, prophylactic anti-D is NOT indicated, if
- Direct Anti-human Globulin (AHG) test of cord blood is negative
 - Indirect Anti-human Globulin (AHG) test of mother's blood is negative
 - Direct Anti-human Globulin (AHG) test of cord blood is positive
 - Mother is a primigravida
49. The blood coagulation time is prolonged in the following conditions, except
- Hemophilia
 - Idiopathic thrombocytopenia
 - Heparin administration
 - Afibrinogenemia
50. Which of the following proteins bind with free hemoglobin in the plasma?
- Albumin
 - Heptaglobin
 - Pre-albumin
 - Ceruloplasmin
51. Australia antigen is associated with the following infection
- HIV
 - HCV
 - HBV
 - CMV
52. Total body iron content is
- 10-15 gms
 - 8-14 gms
 - 2-6 gms
 - 16-18 gms
53. Classic hemophilia is due to deficiency of
- Factor II
 - Factor V
 - Factor VII
 - Factor VIII

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

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

55. Maternal alpha-feto protein is raised in

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

56. Carpal bone which fractures commonly is

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

57. Salk vaccine is

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

58. X-ray emit

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

59. The hemoglobin to appear first in the fetus is

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

60. Capsule of a joint is attached to the bone by
- Fibrous band
 - Ligaments
 - Synovium
 - Trabeculae
61. Antigen trapping cells are
- Monocytes
 - Macrophages
 - Lymphocytes
 - NK cells
62. Uveitis is characterized by all, except
- Mucopurulent discharge
 - Small pupil
 - Moderate pain
 - Marked tenderness
63. Fructose in semen is produced by
- Prostrate
 - Seminal vesicle
 - Testes
 - Epididymis
64. Physiological jaundice of newborn is characterized by all, except
- Jaundice on 2nd day of birth
 - Jaundice at birth
 - Jaundice ends by 8th day of birth
 - Kernicterus is not common
65. The commonest cause of hematemesis and melena is
- Chronic peptic ulcer
 - Acute peptic ulcer
 - Gastric carcinoma
 - Cirrhosis of liver

66. The last organ to putrefy in a male body is
- Heart
 - Liver
 - Kidney
 - Prostrate
67. The P-wave of the ECG occurs
- At the beginning of atrial contraction
 - After the end of atrial contraction
 - At the beginning of ventricular contraction
 - At the end of ventricular contraction
68. Decubitus ulcer in a case of uterine prolapse occurs mainly due to
- Infection
 - Friction
 - Venous congestion
 - Malignant change
69. Which hematological changes are not encountered in DIC
- Thrombocytopenia
 - Low FDP
 - Prolonged bleeding time
 - Afibrinogenemia
70. Most common childhood intra cranial tumour is
- Glioma
 - Meningioma
 - Medulloblastoma
 - Neuroblastoma
71. Following are absolute indication for Caesarian section except
- Placenta previa Type III B
 - Eclampsia
 - Cervical fibroid
 - Ca. cervix

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

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

73. Drug of choice in prophylaxis of gout is

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

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

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

75. 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

76. Following are true for umbilical veins, except

- a. Has two umbilical arteries
- b. Has one umbilical veins
- c. Covered with chorion
- d. Contains Wharton's jelly

77. CSF is principally secreted by

- a. Arachnoid granulations
- b. Choroid plexus
- c. Floor of IV ventricle
- d. Peri-aqueductal gray

78. True blood sugar level is a measure of level of
- Glucose
 - Fructose
 - Both glucose and fructose
 - Glucose and ribose
79. Anaphylaxis is mediated by all except
- Serotonin
 - Prostaglandins
 - Bradykinin
 - Anaphylatoxins
80. Stool culture can be used in the diagnosis of Typhoid during
- First week
 - Second week
 - Third week
 - Fourth week
81. HLA typing is useful in
- Blood transfusion
 - Organ transplantation
 - Plasma transfusion
 - Cord blood
82. Which is not true for platelet transfusion?
- Platelets remain effective with 10 days storage
 - Useful in ITP
 - Used in DIC
 - Effect decreases with repeated use
83. Atropine inhibits all of the following, except
- Sweat
 - Saliva
 - Gastric secretion
 - Tears

84. Which is transmitted through feco-oral route

- a. Polio
- b. Leprosy
- c. Diphtheria
- d. Yellow fever

85. Natural reservoir of E. Histolytic is

- a. Dog
- b. Pig
- c. Cattle
- d. Human

86. The vector for Dengue is

- a. Culex
- b. Aedes
- c. Anopheles
- d. Mansonia

87. Carpal tunnel syndrome results from injury to

- a. Median nerve
- b. Radial nerve
- c. Ulnar nerve
- d. Musculo-cutaneous nerve

88. All the following passes through diaphragm, except

- a. Aorta
- b. Esophagus
- c. Inferior vena cava
- d. Greater splanchnic nerve

89. Pouch of Douglas is situated between

- a. Uterus and rectum
- b. Urinary bladder and anterior abdominal wall
- c. Uterus and bladder
- d. Bladder and rectum

90. Down's syndrome is characterized by
- Trisomy 13
 - Trisomy 21
 - Trisomy 18
 - None of the above
91. HIV testing of every donated blood unit is done by
- Western blot assay
 - Immunofluorescence
 - ELISA
 - NAT
92. Which is not a STD?
- Giardiasis
 - Candidiasis
 - Hepatitis A
 - Hepatitis B
93. Infertility in a case of fibroid uterus is due to all, except
- Blocked tubes
 - Distortion of the cavity
 - Blocked cervical canal
 - Anovulation
94. The major site of maturation of B-lymphocytes is
- Bone marrow
 - Lymph nodes
 - Tonsils
 - Peyer's patches
95. Which of these cells have anti-inflammatory actions?
- Neutrophils
 - Eosinophils
 - Macrophage
 - Lymphocyte

96. The most common cause of delirium is
- Head injury
 - Uremia
 - Drug withdrawal
 - Poisoning
97. Crohn's disease most commonly involves
- Jejunum
 - Ileum
 - Caecum and ascending colon
 - Rectosigmoid colon
98. Donath Landsteiner antibodies occur in
- Paroxysmal cold hemoglobinuria
 - Paroxysmal nocturnal hemoglobinuria
 - Thalassemia
 - Lymphoma
99. Intravascular hemolysis is seen in all situation, except
- Snake bite
 - Mismatch blood transfusion
 - AB plasma transfusion
 - Acute burns
100. Heinz bodies are made up of
- Hemoglobin
 - Mitochondria
 - Chromatin
 - Phagosomes

SCTIMST Entrance Examination for M.D. Transfusion Medicine

2016-17

Answers to Multiple choice questions:

1. B
2. A
3. C
4. D
5. C
6. B
7. C
8. B
9. A
10. A
11. C
12. A
13. D
14. A
15. C
16. D
17. C
18. C
19. D
20. B
21. A
22. D
23. B
24. A
25. B
26. C
27. B
28. C
29. D
30. C
31. C
32. C
33. C
34. B
35. C
36. B
37. C
38. B
39. A
40. D

41. B
42. D
43. C
44. B
45. D
46. A
47. C
48. C
49. B
50. B
51. C
52. C
53. D
54. D
55. A
56. A
57. C
58. D
59. C
60. A
61. B
62. A
63. B
64. B
65. A
66. D
67. A
68. C
69. B
70. C
71. B
72. A
73. C
74. B
75. D
76. C
77. B
78. A
79. B
80. D
81. B
82. A
83. D
84. A
85. D

86. B

87. A

88. D

89. A

90. B

91. C

92. C

93. D

94. A

95. B

96. C

97. B

98. A

99. C

100. A