

28/2014

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. The most commonly used fixative for biopsy specimens is :
(A) Alcohol (B) Xylene
(C) Formalin (D) 10% buffered formalin
2. For Frozen section tissue should be sent to the Lab as under :
(A) In carnoys fixative (B) In formalin
(C) In saline (D) Fresh unfixed
3. The most sensitive method of Hb estimation is :
(A) sahlis acid hematin (B) cyanmetHb
(C) alkali hematin (D) specific gravity method
4. Tissues for Electron microscopy are fixed in :
(A) 10% buffered formalin (B) Carnoy's fixative
(C) Normal saline (D) 4% glutaraldehyde
5. The nucleated cell best used for chromosomal study is :
(A) Polymorphs (B) Lymphocyte
(C) Fibroblast (D) Epithelial cell
6. Which of the following complications is likely to result after several units of blood have been transfused?
(A) Metabolic alkalosis (B) Metabolic acidosis
(C) Resp. alkalosis (D) Resp. acidosis
7. Anticoagulant of choice for ESR by Wintrobeg method :
(A) Citrate (B) Heparin
(C) Oxalate (D) EDTA

8. The shelf life of blood stored in CPD-A is :
- (A) 28 days (B) 30 days
(C) 35 days (D) 42 days
9. The anticoagulant for coagulation studies is :
- (A) EDTA (B) Heparin
(C) Sodium citrate (D) Sodium fluoride
10. The EDTA of choice for blood counts is :
- (A) Disodium EDTA (B) Trisodium EDTA
(C) Dipotassium EDTA (D) Tripotassium EDTA
11. The following are Romanowsky stains except :
- (A) Leishmans stain (B) Giemsa stain
(C) Wrights stain (D) Toluedene blue stain
12. Urine for microscopy is fixed in:
- (A) Alcohol (B) Acetone
(C) Formalin (D) Toluene
13. The following are cytological fixatives except :
- (A) Ethyl Alcohol (B) Formalin
(C) Isopropyl Alcohol (D) Ether
14. One of the following is a clearing agent :
- (A) Alcohol (B) Acetone
(C) Chloroform (D) Bouins fluid
15. The ideal thickness of microtome sections is :
- (A) 1-2 microns (B) 2-3 microns
(C) 3-4 microns (D) 4-5 microns
16. The special stain for hemosiderin is :
- (A) PAS (B) Reticulin
(C) Trichrome (D) Perls Prussian blue

17. WBC pipette is used for the following, except :
- (A) Sperm count (B) CSF count
(C) Absolute Eosinophil count (D) Platelet count
18. One of the following ova does not float in saline :
- (A) Taenia solium ova (B) Echinococcus ova
(C) Unfertilized ova of Ascaris (D) Fertilized ova of Ascaris
19. Paraaminodimethyl benzaldehyde in conc.HCl is :
- (A) Fouchets reagent (B) Ehrlichs reagent
(C) Benedicts reagent (D) Gerhards reagent
20. Envelope shaped crystals in urine microscopy are :
- (A) calcium oxalate (B) calcium phosphate
(C) calcium urate (D) triple phosphate
21. Heterozygous sickle cell anemia gives protection against :
- (A) G6PD (B) Malaria
(C) Thalassemia (D) Dengue fever
22. PNH is associated with a deficiency of :
- (A) DAF (B) MIRL
(C) GPI Anchored protein (D) All of the above
23. All of the following conditions are associated with Coombs positive hemolytic anemia except :
- (A) Thrombotic Thrombocytopenic purpura (TTP)
(B) Scleroderma
(C) SLE
(D) PAN
24. All are features of megaloblastic anemia except :
- (A) pancytopenia (B) elevated LDH
(C) low serum ferritin (D) unconjugated hyperbilirubinemia

25. All are features of hemolytic anaemia except :
- | | |
|-------------------------------|-------------------------------|
| (A) Urine urobilinogen absent | (B) Hemosiderinuria |
| (C) Decreased haptoglobin | (D) Raised indirect bilirubin |
26. Low serum haptoglobin in hemolysis is masked by :
- | | |
|---------------------------|-------------------|
| (A) Pregnancy | (B) Liver disease |
| (C) Bile duct obstruction | (D) Malnutrition |
27. The following protein defects can cause hereditary spherocytosis except :
- | | |
|-------------------|-----------------------------|
| (A) Ankyrin | (B) Palladin |
| (C) Glycophorin C | (D) Anion transport protein |
28. Maturation defect in RBC is seen in :
- | | |
|---|-----------------------------|
| (A) Folic acid and B ₁₂ deficiency | (B) Vit. C deficiency |
| (C) Vit. D deficiency | (D) Essential FA deficiency |
29. Osmotic fragility is increased in :
- | | |
|------------------------------|----------------------------|
| (A) Sickle cell anaemia | (B) Thalassemia |
| (C) Hereditary spherocytosis | (D) Chronic lead poisoning |
30. The most common cause of AD Hereditary Sphero cytosis is :
- | | |
|--------------------------------|-------------------------------|
| (A) mutation in band 3 | (B) mutation in ankyrin |
| (C) mutation of alpha spectrin | (D) mutation of beta spectrin |
31. The most common cause of BETA thalassemia is :
- | | |
|--|-------------------------------|
| (A) Mutations leading to aberrant splicing | (B) Promoter region mutations |
| (C) Chain terminator mutations | (D) Gene mutations |
32. Autoimmune haemolytic anemia is seen in :
- | | |
|---------|---------|
| (A) ALL | (B) AML |
| (C) CLL | (D) CML |
33. Which is not seen in Iron deficiency anaemia?
- | |
|---|
| (A) Hyper-segmented neutrophils |
| (B) Microcytosis precedes hypochromia |
| (C) MCHC < 50% |
| (D) Commonest cause of anaemia in India |

34. Howel-Jolly bodies may be seen after :
- (A) Hepatectomy (B) Splenectomy
(C) Pancreatectomy (D) Cholecystectomy
35. The earliest sign of iron deficiency anaemia :
- (A) Increase in iron binding capacity (B) Decrease in serum ferritin level
(C) Decrease in serum iron level (D) All the above
36. The peripheral blood smear of a patient who presented with anaemia, shows features of thalassemia. Family history is also +ve. The investigation done to establish the diagnosis is :
- (A) ESR estimation (B) Blood spherocyte estimation
(C) Bone marrow aspiration (D) Hb-electrophoresis
37. The mother has sickle cell disease; Father is normal; Chances of children having sickle cell disease and sickle cell trait respectively are :
- (A) 0 and 100% (B) 25 and 25%
(C) 50 and 50% (D) 10 and 50%
38. All are features of intravascular hemolysis except :
- (A) hemoglobinemia (B) hemosiderinuria
(C) increased serum haptoglobin (D) methemoglobinemia
39. D.I.C is seen in :
- (A) Acute promyelocytic leukemia (B) Acute myelomonocytic leukemia
(C) Chronic Myeloid Leukemia (D) Autoimmune hemolytic anemia
40. Which of the following are characteristic markers for Hodgkin's Lymphoma?
- (A) CD15 and CD30 (B) CD15 and CD45
(C) CD30 and CD68 (D) CD15 and CD3
41. Non specific esterase is positive in all the categories of AML, except :
- (A) AML-M3 (B) AML-M4
(C) AML-M5 (D) AML-M6

42. Which of these is true regarding CML?
- (A) Size of splenomegaly indicates prognosis
 - (B) Phagocytic activity of WBC is reduced
 - (C) Sudan black stain is specific for myeloblast
 - (D) Myeloblast, granuloblast and lymphoblast are PH chromosome +ve
43. The most common cause of Monoclonal Gammopathy is :
- (A) Multiple myeloma
 - (B) Amyloidosis
 - (C) MGUS
 - (D) Waldenstroms macroglobulinemia
44. The following bleeding disorders have Normal platelet count, BT, PT, APTT except :
- (A) Scurvy
 - (B) Ehler Danlos syndrome
 - (C) Bernard soulier syndrome
 - (D) Henoch schonlein purpura
45. Prolonged BT with low platelet count characteristically seen in :
- (A) Bernard soulier syndrome
 - (B) Glanzmanns Thrombasthenia
 - (C) Immune Thrombocytopenia
 - (D) Von Willibrand's disease
46. Bernard soulier syndrome is cha. by all except :
- (A) deficiency of platelet membrane GP complex 1b-9
 - (B) defective adhesion
 - (C) defective aggregation
 - (D) normal platelet count.
47. Qualitative defect in VWF is a feature of :
- (A) Type 1 Von Willibrand's disease
 - (B) Type 2 Von Willibrand's disease
 - (C) Type 3 Von Willibrand's disease
 - (D) All the above
48. The false statement regarding Glanzmanns thrombasthenia is :
- (A) Defective platelet aggregation
 - (B) Autosomal recessive
 - (C) Deficiency of GP 2b-3a
 - (D) Defective adhesion
49. The factor whose deficiency is not known to cause bleeding is :
- (A) factor 3
 - (B) factor 10
 - (C) factor 12
 - (D) factor 13

50. All are true about Hemophilia except :
- (A) normal BT (B) normal PT
(C) prolonged PT (D) prolonged PTT
51. Small sized platelets are a feature of :
- (A) Wiskott Aldrich syndrome (B) Bernard Soullier syndrome
(C) Immune Thrombocytopenia (D) Glanzman's thrombasthenia
52. The commonest mode of inheritance of Von Willebrand's disease :
- (A) *Codominant* (B) *Autosomal recessive*
(C) *Autosomal dominant* (D) *X linked recessive*
53. Cause of Immune Thrombocytopenia is :
- (A) Vasculitis (B) Antibody to vascular epithelium
(C) Antibody to platelets (D) Antibody to clotting factors
54. The best method for blood grouping is :
- (A) Slide method (B) Tube method
(C) Tile method (D) Back typing
55. One of the following is not a constituent of the semen diluting fluid :
- (A) Formalin (B) Sodium carbonate
(C) Sodium sulphate (D) Distilled water
56. For karyotyping, the dividing cells are arrested by addition of Colchicine in the following mitotic phase :
- (A) Prophase (B) Metaphase
(C) Anaphase (D) Telophase
57. Du estimation is indicated in which of the following persons :
- (A) Rh positive donor (B) Rh negative donor
(C) Rh negative recipient (D) Rh positive recipient

58. A cast which may be present in the urine of a healthy individual is :
- (A) Granular cast (B) Hyaline cast
(C) Red cell cast (D) Epithelial cast
59. All are crystals found in acidic urine except :
- (A) Calcium oxalate (B) Uric acid
(C) Triple phosphate (D) Cystine
60. The amount of Anticoagulant used in Blood bags is :
- (A) 10 ml / 100 ml (B) 12 ml / 100 ml
(C) 14 ml / 100 ml (D) 15 ml / 100 ml
61. Heparin is the Anticoagulant of choice for the following tests, except :
- (A) Prothrombin time (B) Osmotic fragility
(C) Microhematocrit (D) Arterial blood gas
62. LE cells can be demonstrated in :
- (A) Blood (B) Pleural fluid
(C) CSF (D) All the above
63. Normal PCV in an adult male is :
- (A) 30-35% (B) 35-47%
(C) 40-54% (D) 54-68%
64. The special stain for Lymphoblast is :
- (A) Myeloperoxidase (B) Sudan black
(C) Periodic Acid Schiff (D) Chloroacetate esterase
65. The preservative used for Urine Catecholamine estimation is :
- (A) Formic acid (B) Boric acid
(C) Conc. Hydrochloric Acid (D) Conc. Sulphuric Acid
66. Musty odour of Urine indicates :
- (A) Diabetic ketosis (B) Phenyl ketonuria
(C) Alkaptonuria (D) Urinary tract infection

67. Normal Ph of Urine is :
- (A) 4.6 – 8 (B) 3 – 5.5
(C) 6.5 – 9 (D) 4.6 – 6
68. The test for ketone bodies in Urine is :
- (A) Gerhadts test (B) Rotheras test
(C) Harts test (D) Any of the above
69. The best stain for studying cervical cytology is :
- (A) Giemsa (B) Papanicoloau's stain
(C) Haematoxylin and eosin (D) Wright's stain
70. C.S.F cell count in tuberculous meningitis varies between :
- (A) 0 to 99 (B) 100 to 499
(C) 500 to 999 (D) 1000 to 5000
71. Isolated prolonged Prothrombin time is seen in :
- (A) Factor 2 deficiency (B) Factor 5 deficiency
(C) Factor 7 deficiency (D) Factor 10 deficiency
72. Routine section cutting is done using :
- (A) Rocking microtome (B) Rotary microtome
(C) Sliding microtome (D) Base sledge microtome
73. Cross matching is not absolutely indicated for transfusion of the following :
- (A) Packed cells (B) Fresh frozen plasma
(C) Platelet concentrate (D) Platelet rich plasma
74. Normal platelet count is :
- (A) 1.5 – 2.5 Lakhs (B) 1.5 – 3.5 Lakhs
(C) 1.5 – 4.5 Lakhs (D) 1.5 – 5.5 Lakhs
75. The colour code for citrated vacuitainer is :
- (A) purple (B) red
(C) blue (D) white

76. Brilliant cresyl blue is used to demonstrate :
(A) Sickle cells (B) Reticulocyte
(C) Malarial parasite (D) Eosinophil
77. The following diseases are screened before blood transfusion except :
(A) Syphilis (B) Malaria
(C) HIV (D) Hepatitis A
78. The best method for ESR estimation is :
(A) Wintrob's method (B) Westergren's method
(C) Eserite method (D) Micro ESR method
79. Bone marrow fibrosis is demonstrated with the following stain :
(A) Periodic acid Schiff (B) Giemsa
(C) Reticulin (D) Methenamine silver
80. Vaginal smears for hormonal cytology are stained with :
(A) PAP stain (B) Acetoorcein stain
(C) Shorr's stain (D) May Grunwald Giemsa
81. The word "Poverty and un British rule in India" is composed by :
(A) Dadabhai Naoroji (B) R.P. Datt
(C) Tilak (D) M.M. Roy
82. Who is known as "Kerala Gandhi"?
(A) A.K. Gopalan (B) K. Kelappan
(C) Pattam Thanupillai (D) K. Krishna Pillai
83. "Ananda Maha Sabha" was founded by an atheist in Kerala :
(A) Ayyankali (B) Brahmananda swami sivayogi
(C) Vagbhatanandan (D) Vaikunda Swami
84. According to the census of 2001 Rural Population in Kerala is :
(A) 64% (B) 68.8%
(C) 80% (D) 72.2%

85. - Who was the first Martyr of freedom movement?
 (A) Parassi Raja (B) Mangal Pande
 (C) Bhagat Singh (D) Sourya Sen
86. Here is a Mandra, a short one that I give you the mantra is 'Do or Die' Who said it?
 (A) Subhash Chandra Bose (B) Bhagat singh
 (C) Mahatma Gandhi (D) Jayaprakash Narayan
87. Who wrote the radical play "Adukkalayil ninnum Arangathekku"?
 (A) V.T. Bhattathirippadu (B) Premji
 (C) Kavalam (D) Thoppil Bhasi
88. Lakdawala Committee (1993) was constituted to study :
 (A) Estimation of proportion and number of poor
 (B) Communal issues
 (C) State reorganization
 (D) Unemployment and social issues
89. The last state which was liberated from European colonialism in India?
 (A) Jammu and Kashmir (B) Pondicherry
 (C) Goa (D) Mahe
90. The cold and dry Siberian wind is checked in India by :
 (A) Aravally Mountain (B) Himalaya
 (C) Vindhya Mountain (D) Western Ghat
91. The first volunteer who was arrested as the part of Individual Civil disobedience in 1940?
 (A) Nehru (B) Vinoba Bhava
 (C) Gandhiji (D) Sarojini Naidu
92. Which session of the Congress made a call for the country to, celebrate 26th January as 'Poorna Swaraj day'?
 (A) Nagpur Session (B) Lahore Session
 (C) Bombay session (D) Madras session

93. Name the Young revolutionary who died after 62 days of hunger Strike at Jail :
- (A) Yatindranath Das (B) Rajguru
(C) Madan Lal (D) Yashpal
94. Which place is called 'Venice of the east'?
- (A) Kochi (B) Kozhikkodu
(C) Kollam (D) Alappuzha
95. Dandi march is related with which movement?
- (A) Non-co-operation (B) Civil disobedience
(C) Quit India (D) Khilafat Movement
96. The Planning Commission of India is :
- (A) A constitutional body (B) A statutory body
(C) A non-statutory body (D) An independent autonomous body
97. Boycott movement against Simon Commission at Lahore was leaded by whom?
- (A) Balagangadhara Tilak (B) Pt. Nehru
(C) Lala Lajpath Rai (D) Vallabhai Patel
98. The highest mountain 'Anamudi' is situated in which district :
- (A) Wynad (B) Kollam
(C) Palghat (D) Idukki
99. The news paper 'Swadesabhimani' was started by a social reformer in Kerala :
- (A) Ramakrishna Pillai (B) Vakkam Moulavi
(C) A. K. Gopalan (D) C.V. Raman Pillai
100. Which is the longest river in Kerala?
- (A) Periyar (B) Bharatha puzha
(C) Achankovil (D) Pamba