

WRITTEN TEST FOR MFCP TECH.ASST. (TRANSFUSION MEDICINE) A TO B


1. Which immunoglobulin in human is pentameric in structure
 - A. IgM
 - B. IgG
 - C. IgA
 - D. IgD
2. World AIDS day is celebrated on
 - A. 1st November
 - B. 1st December
 - C. 14th June
 - D. 8th April
3. The specific gravity of copper sulphate working solution for hemoglobin estimation is
 - A. 1.050
 - B. 1.051
 - C. 1.052
 - D. 1.053
4. National AIDS control programme was established in
 - A. 1987
 - B. 1990
 - C. 1992
 - D. 1996
5. Which of the following is NOT an advantage of sodium hypochlorite
 - A. Bactericidal
 - B. Virucidal
 - C. Affordable
 - D. Stable at Room Temperature
6. The method most suitable for ordering consumables with a long expiry date if you have sufficient resources and storage space
 - A. Bulk order
 - B. Standing order
 - C. Monthly procurement
 - D. Order as required
7. Increased rouleaux formation is seen in
 - A. Multiple myeloma
 - B. Chronic myeloid leukemia
 - C. Acute lymphatic leukemia
 - D. Chronic lymphatic leukemia
8. Barrier protection does not include
 - A. Gloves
 - B. Hepatitis vaccination
 - C. Mask
 - D. Occlusive bandages
9. Which one of the following is not used in diagnosis of syphilis?
 - A. VDRL
 - B. Frei's test
 - C. Reagin test
 - D. TPHA
10. If a donor exhibits untoward reaction during blood donation
 - A. The donation should be terminated immediately
 - B. The donor should be encouraged till donation is complete
 - C. The donor should be asked to relax and give assurance
 - D. The donor should be informed not to donate blood in future
11. The immunoglobulin which causes hemolytic disease of fetus is
 - A. IgM
 - B. IgA
 - C. IgG
 - D. IgE
12. Intrauterine blood transfusion is indicated in which of the following
 - A. Intra-uterine growth retardation
 - B. Hydrops fetalis
 - C. Ectopic pregnancy
 - D. Twins



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13. Factors necessary for antigen-antibody reactions are all, except
A. Low ionic strength saline
B. Normal saline solution
C. Enzymes
D. Copper sulphate solution
14. Transmission of HIV is not possible by
A. Transfusion of blood and blood products
B. Mother to fetus transmission
C. Sharing food with HIV infected patients
D. Sharing of needles for injections
15. Treatment of choice for Hemophilia A is
A. Fresh Frozen plasma
B. Cryoprecipitate
C. Cryo poor plasma
D. Factor VIII concentrates
16. The ideal temperature for storage of platelet concentrate is
A. 4 to 8°C
B. 0 to -18°C
C. 20 to 24°C
D. 10 to 18°C
17. Australia antigen is associated with the following infection
A. HIV
B. HCV
C. HBV
D. CMV
18. Exchange transfusion in newborns are indicated in
A. Physiological jaundice
B. Post term baby
C. ABO incompatibility
D. Rh incompatibility
19. Safe Transfusion depends on the following, except
A. Correct labelling of the blood sample
B. Correct storage conditions of blood and blood components
C. Inspection of the unit before transfusion
D. Keeping the blood units in open to warm the blood before transfusion
20. HIV testing of donated blood unit is done by all, except
A. Western blot assay
B. Chemiluminescence
C. ELISA
D. NAT
21. Intravascular hemolysis is seen in all situation, except
A. Snake bite
B. Mismatch blood transfusion
C. AB plasma transfusion
D. Acute burns
22. In a Rh (-ve) mother who has delivered a Rh (+ve) baby, prophylactic anti-D is NOT indicated, if
A. Direct Anti-human Globulin (AHG) test of cord blood is negative
B. Indirect Anti-human Globulin (AHG) test of mother's blood is negative
C. Direct Anti-human Globulin (AHG) test of cord blood is positive
D. Mother is a primigravida

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23. HIV is a
A. Arbovirus
B. Oncovirus
C. Flavivirus
D. Retrovirus
24. Effective vaccine is available for
A. Hepatitis B
B. Dengue
C. Malaria
D. HIV
25. Age of a blood donor should be between
A. 18 to 60 years
B. 18 to 65 years
C. 16 to 60 years
D. 16 to 65 years
26. Daily quality check parameters for a blood storage refrigerator are,
A. Functional temperature display unit showing temp between 1 - 6°C
B. Audio visual alarm for the incompletely closed or open door
C. Thermograph tracing record of the last 24 hours
D. All of the above
27. Which of the following is an acute transfusion reaction?
A. Post-transfusion purpura
B. Febrile Non-Hemolytic Transfusion Reaction
C. Transfusion associated Graft-vs-Host Disease
D. Transfusion Transmitted Hepatitis
28. The purpose of immediate spin is to:
A. Ensure survival of transfused RBCs
B. Determine ABO compatibility between donor and recipient
C. Detect cold reacting unexpected antibodies
D. Meet computer cross-match requirements
29. Calibration/validation of a blood storage refrigerator temperature display is done by:
A. Keeping a hygrometer inside the refrigerator
B. Keeping a calibrated mercury thermometer inside the refrigerator
C. Keeping a calibrated mercury thermometer inside the refrigerator within a beaker filled with distilled water and glycerine
D. None of the above
30. The major advantages of red cell additive solution are all EXCEPT
A. Improved hematocrit of packed red cells
B. Decrease in transfusion transmissible diseases
C. Prolonged shelf-life of red cells
D. Improved viability over whole blood
31. Hemoglobin of a blood donor should be more than
A. 11.5 gm/dL
B. 12 gm/dL
C. 12.5 gm/dL
D. 13 gm/dL
32. A haemovigilance programme is concerned with:
A. Investigation of transfusion related reactions
B. Hemoglobin level of blood donor
C. Efficiency of blood bank staff
D. Efficiency of blood bank equipment
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33. In the blood bag, blood is mixed with
- A. Anticoagulant solution
 - B. Preservative solution
 - C. Anticoagulant-preservative solution
 - D. Mannitol-dextrose solution
34. Which is **NOT** mandatory on a donated blood unit?
- A. Blood Grouping and Typing
 - B. Antibody Screening
 - C. Blood Component preparation
 - D. Infectious diseases screening
35. The Donor phlebotomy site should be inspected for
- A. Scars
 - B. Tattoo
 - C. Infection
 - D. All of the above
36. As per Drug and Cosmetic Rules, Govt. of India, the following number of components should be subjected to Quality Control
- A. 1% of the components prepared
 - B. 10% of the components prepared
 - C. 5% of the components prepared
 - D. All of the components prepared
37. Platelets prepared by PRP method from a whole blood donation require which of the following?
- A. Two light spins
 - B. A hard spin, then a light spin
 - C. A light spin, then a hard spin
 - D. A light spin and two hard spins
38. The end result of VDRL/RPR test for syphilis is
- A. Agglutination
 - B. Flocculation
 - C. Precipitation
 - D. Neutralization
39. Minor cross-matching includes
- A. Testing patient serum with donor cells
 - B. Testing donor serum with patient cells
 - C. Testing of each donor cells and serum with other donor units
 - D. Testing of patient serum with patient cells
40. Blood donor and recipient samples used in cross-matching must be stored for a minimum of how many days following transfusion?
- A. 2 days
 - B. 5 days
 - C. 7 days
 - D. 14 days
41. The general rule regarding handling of blood and blood products is that
- A. All samples should be treated as potentially infectious
 - B. Reactive samples to be treated as potentially infectious
 - C. Samples from patient should be treated as potentially infectious
 - D. Samples from donors should be treated as potentially infectious

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42. To maintain general laboratory hygiene the following should be enforced, except
- A. Restricted entry to work area
 - B. Avoid eating, drinking, smoking in the laboratory
 - C. Avoid mouth pipetting
 - D. Vaccination for hepatitis B is not mandatory
43. For ABO grouping, which of the following statement is true
- A. Only forward grouping is required
 - B. Only reverse grouping is required
 - C. Both forward and reverse grouping is required
 - D. All of the above
44. Donor Hemovigilance Programme of India was launched in
- A. December 2012
 - B. December 2013
 - C. June 2015
 - D. June 2016
45. Minimum weight of blood donor should be
- A. 55 kg
 - B. 50 kg
 - C. 40 kg
 - D. 45 kg
46. Correct sequence of adding sample and reagents in an ELISA test is:
- A. Sample → conjugate → substrate → stop solution
 - B. Conjugate → sample → substrate → stop solution
 - C. Sample → substrate → conjugate → stop solution
 - D. Not sure of the sequence
47. Yellow plastic bags are used for disposal of the following bio-medical waste in the blood bank
- A. Cotton swabs/Tissue papers contaminated with blood/serum/plasma
 - B. Paper/General waste
 - C. Needles/Lancets
 - D. Plastic blood bags and urinary bags
48. A donor is permanently deferred if he suffers from which of the following diseases
- A. Epilepsy
 - B. Respiratory tract infection
 - C. Hepatitis A
 - D. Malaria
49. Shelf life of red blood cells in additive solution is
- A. 35 days from date of whole blood collection
 - B. 42 days from date of whole blood collection
 - C. 47 days from date of whole blood collection
 - D. 28 days from date of whole blood collection
50. Counseling of sero-reactive blood donor is done for the following reasons, except
- A. Identify high risk factors in the blood donors
 - B. Referring them to appropriate section for confirmation and treatment
 - C. Asking them not to donate blood in future
 - D. Requesting them to encourage his family members to donate blood

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ANSWER KEY (25/06/2019)

1	A	21	C	41	A
2	B	22	C	42	D
3	D	23	D	43	C
4	C	24	A	44	D
5	D	25	B	45	D
6	A	26	D	46	A
7	A	27	B	47	A
8	B	28	B	48	A
9	B	29	C	49	B
10	A	30	B	50	D
11	C	31	C		
12	B	32	A		
13	D	33	C		
14	C	34	C		
15	D	35	D		
16	C	36	A		
17	C	37	C		
18	D	38	B		
19	D	39	B		
20	A	40	C		

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