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**TOP Transfusion Medicine MCQs and Answers**

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### Transfusion Medicine Multiple Choice Questions

**1. First blood bank in India was established at**

- A. Delhi
- B. Calcutta
- C. Pune
- D. Bombay

Answer: B

**2. AIDS cases are reported first in the year**

- A. 1960
- B. 1971
- C. 1981
- D. 1980

Answer: C

**3. World's first hospital blood bank at cook county hospital, Chicago was began by**

- A. James Blundell
- B. Fantus
- C. Mollison
- D. Ottenberg



Answer: B

**4. Professional Blood donation banned in India since**

- A. January 1, 1999
- B. January 1, 1997
- C. January 1, 1998
- D. January 1, 1996

Answer: C

**5. Government of India made test for Human Immunodeficiency Virus (HIV) mandatory by notifying in drugs and cosmetic act on \_\_\_\_\_.**

- A. 1991
- B. 1985
- C. 1989
- D. 1990

Answer: C

**6. License of Blood storage centre is valid for**

- A. 3 years
- B. 2 years
- C. 5 years
- D. 1 year

Answer: B

**7. National voluntary blood donation day October 1st is in memory of**

- A. Dr. J.G. Jolly
- B. Karl Landsteiner
- C. William Harvey
- D. Wiener Klinische

Answer: A



**8. Govt. of India published the National Blood policy in the year**

- A. 2002
- B. 2000
- C. 1999
- D. 2001

Answer: A

**9. Cycle of disaster management include**

- A. Preparedness
- B. Response
- C. Recovery
- D. All of the above

Answer: D

**10. Approved additive solutions for RBC storage are all except**

- A. AS-1
- B. AS-2
- C. AS-3
- D. AS-4

Answer: B

**11. Author of the book titled “Experiments on the transfusion of blood by syringe”**

- A. William Harvey
- B. James Blundell
- C. Baxton-Hick
- D. Richard Lower

Answer: B

**12. Frozen RBC can be stored up to**



- A. 10 years
- B. 25 years
- C. 5 years
- D. One year

Answer: A

**13. Biochemical composition of RBC membrane is**

- A. 52% protein, 40% lipid and 8% carbohydrate
- B. 40% protein, 52% lipid and 8% carbohydrate
- C. 52% carbohydrate, 40% lipid and 8% protein
- D. None of the above

Answer: A

**14. Minimum hemoglobin value required to accept an adult as a blood donor is**

- A. 12 gm/dl
- B. 12.5 gm/dl
- C. 13 gm/dl
- D. 11.5 gm/dl

Answer: B

**15. Expiry date of irradiated platelet is**

- A. 1 day
- B. 3 days
- C. 7 days
- D. No change from original expiration date

Answer: D

**16. ABO gene locus is in chromosome**

- A. 9q34.2
- B. 19p13.3
- C. 6p24.2
- D. 4q28-q31



Answer: A

**17. Latest included blood group is ISBT is**

- A. LAN
- B. VEL
- C. AUG
- D. FORS

Answer: C

**18. Compatible IV solution that can be administered through the same transfusion gel is \_\_\_\_\_.**

- A. Ringer lactate
- B. 20% dextrose
- C. Plasmalyte A
- D. 10% dextrose

Answer: C

**19. Which of the following antibodies is most likely to be naturally occurring**

- A. Anti K
- B. Anti M
- C. Anti e
- D. Anti `JK^a`

Answer: B

**20. Of the following a non carbohydrate antigen is**

- A. H
- B. Lewis
- C. I
- D. Rh

Answer: D



**21. A null phenotype of RBCs resistant/delayed lysis by 2 m urea**

- A. Fy (a-b-)
- B. Le (a-b-)
- C. JK (a-b-)
- D. Co (a-b-)

Answer: C

**22. Half life of Hydroxy Ethyl Starch (HES)**

- A. 6 hrs
- B. 12 hrs
- C. 24 hrs
- D. 48 hrs

Answer: C

**23. Super transfusion protocol in thalassemic children recommended hemoglobin target as**

- A. 8-9 gm/dl
- B. 9-10 gm/dl
- C. 11-12 gm/dl
- D. 12-13 gm/dl

Answer: C

**24. In preterm infants Kernicterus starts when the serum bilirubin level is**

- A. 5-8 mg/dl
- B. 8-12 mg/dl
- C. 20-30 mg/dl
- D. 19-27 mg/dl

Answer: B

**25. Albumen treatment is not indicated in**



- A. Burns
- B. Shock
- C. Cachexia
- D. Plasmapheresis

Answer: C

**26. Blood group system related to McLeod syndrome is**

- A. Kell
- B. Kidd
- C. Duffy
- D. Lewis

Answer: A

**27. Strategies for augmenting cell dose in umbilical cord stem cell transplantation include all except**

- A. Exvivo expansion of umbilical cord blood stem and progenitor cells
- B. Intra bone marrow injection
- C. Thyroid hormone treatment
- D. Multiple unit umbilical cord blood transplantation

Answer: C

**28. Percentage of red cell suspension used in column agglutination technique is**

- A. 1%
- B. 5%
- C. 10%
- D. 40%

Answer: A

**29. 'Witebsky' test is used for**

- A. Irregular antibody detection
- B. Secretory status



- C. Compatibility test
- D. Transfusion reactions

Answer: B

**30. Elution method good for eluting IgG antibody**

- A. Heat elution
- B. Glycine EDTA elution
- C. Both (1) and (2)
- D. None of the above

Answer: B

**31. Colour of the label used for autologous transfusions units**

- A. Pink
- B. Orange
- C. Green
- D. Blue

Answer: C

**32. A donor experiences facial muscle twitch during platelet pheresis, what should be done?**

- A. Detach ACD line
- B. Decrease return rate
- C. Add saline to the line
- D. Stop the procedure

Answer: B

**33. Quality indicator mandated for accredited blood banks to monitor and report every 6 months**

- A. Donor deferral rate
- B. Donor reaction rate
- C. Percentage of components prepared
- D. Wastage rate





Answer: D

**34. Recommended temperature for storage of cryopreserved umbilical cord blood cells**

- A.  $\leq -150^{\circ}\text{C}$
- B.  $\leq -210^{\circ}\text{C}$
- C.  $\leq 100^{\circ}\text{C}$
- D.  $\leq -80^{\circ}\text{C}$

Answer: A

**35. Tests for QC of peripheral blood stem cells include**

- A. Clonogenic assay
- B. Cell viability
- C. Sterility testing
- D. All of the above

Answer: D

**36. A peripheral stem cell donor can't donate blood/apheresis for \_\_\_\_\_.**

- A. 1 year
- B. 6 months
- C. 3 months
- D. 3 years

Answer: B

**37. Advantages of Apheresis derived blood components except**

- A. Reduced donor exposure
- B. Matching of donor to patient is not required
- C. Higher quality produced
- D. Reduced donor reactions

Answer: B



**38. Maximum volume of blood collected from a blood donor should not exceed**

- A. 10.5 ml/kg body wt
- B. 11 ml/kg body wt
- C. 12.5 ml/kg body wt
- D. 12 ml/kg body wt

Answer: A

**39. Minimum area required to set up an Apheresis room**

- A. 50 sq.m
- B. 10 sq.m
- C. 25 sq.m
- D. 100 sq.m

Answer: B

**40. Indication for red cell exchange in malaria is**

- A. Parasitemia more than 30% in the absence of clinical complications
- B. Pregnant woman with malaria
- C. Parasitemia more than 10% with response to treatment
- D. Parasitemia more than 10% in the absence of clinical complications

Answer: A

**41. Auto antibody specificity in PCH patients is**

- A. I
- B. i
- C. P
- D.  $p^k$

Answer: C

**42. Source of Erythropoietin**



- A. Renal interstitial fibroblasts
- B. Renal tubular epithelial cells
- C. Peri sinusoidal cells in liver
- D. All of the above

Answer: D

**43. Antibody in renal patients undergoing dialysis with formaldehyde sterilized machine**

- A. Anti M
- B. Anti N
- C. Anti P
- D. Anti S

Answer: B

**44. A positive direct coombs test can be due to**

- A. Auto antibodies to intrinsic red cell antigen
- B. Allo antibody against transfused red cell antigen
- C. Drug induced antibodies
- D. All of the above

Answer: D

**45. Sulf hydryl reagents are all except**

- A. DAT
- B. DTT
- C. 2 ME
- D. AET

Answer: A

**46. Kymriah is \_\_\_\_\_.**

- A. Drug used in ALL
- B. Blood substitute
- C. Reagent
- D. Mixed field reaction



Answer: A

**47. Contents in ZZAP reagent**

- A. DTT + Albumin
- B. DTT + Ficin
- C. PEG + Ficin
- D. DTT + ZME

Answer: B

**48. Massive transfusion with stored citrated blood cause**

- A. Left shift of  $O_2$  dissociation curve
- B. Right shift of  $O_2$  dissociation curve
- C. Increase 2, 3 DPG
- D. None of the above

Answer: A

**49. Not used as an adjunct in transfusion therapy for trauma and burns patient**

- A.  $\epsilon$  amino caproic acid
- B. Tranexamic acid
- C. Methyl cellulose
- D. None of the above

Answer: C

**50. \_\_\_\_\_ substance is present in hydatid cyst fluid.**

- A. Sulphur
- B. Iron
- C. Potassium
- D. Chlorine

Answer: C

**51. Transplantation of porcine heart valve to a man is an example of**



- A. Syngenic transplant
- B. Xenogenic transplant
- C. Allogenic transplant
- D. Autologous transplant

Answer: B

**52. 5% Albumen as a plasma volume expander has a half life of**

- A. One day
- B. 12 hrs
- C. 16 hrs
- D. 8 hrs

Answer: C

**53. Granulocyte components to be transfused within \_\_\_\_\_ hrs after collection.**

- A. 8 hrs
- B. 24 hrs
- C. 48 hrs
- D. 6 hrs

Answer: B

**54. An ideal blood substitute have the following characteristic except**

- A. Increased availability
- B. Long shelf life
- C. Universal compatibility
- D. Infectious chance as blood products

Answer: D

**55. Blood warmer use is not indicated in**

- A. Neonatal exchange transfusion
- B. Patients with cold agglutinins



- C. Rapid transfusion through central venous catheter
- D. Rapid transfusion in children

Answer: C

**56. “Leap frog” technique relate to the context of**

- A. Apheresis plasma collection
- B. Autologous transfusion
- C. Irradiation of blood products
- D. Pathogen inactivation of blood products

Answer: B

**57. Hyper coagulable state is associated with all except**

- A. Antithromobin deficiency
- B. Increased protein S
- C. Factor V Leiden mutation
- D. F XII deficiency

Answer: B

**58. Post haematopoietic stem cell transplant prophylaxis is given to combat**

- A. Herpes simplex virus
- B. Cytomegalovirus
- C. Epstein Barr virus
- D. All of the above

Answer: D

**59. During preparative regimen in a bidirectional incompatible bone marrow transplant following blood group plasma can only be transfused**

- A. AB blood group
- B. Donor blood group
- C. Recipient blood group
- D. O blood group



Answer: A

**60. Hematological malignancy associated with autoimmune hemolytic anemia is**

- A. Acute Lymphoblastic leukemia
- B. Chronic myeloid leukemia
- C. (1) and (2)
- D. Chronic lymphocytic leukemia

Answer: D

**61. In which of the following situation a negative control with albumin is mandatory in Rh typing?**

- A. Use of high protein reagents
- B. Use of low protein reagents
- C. Use of monoclonal antisera
- D. Use of polyclonal antisera

Answer: A

**62. Rise in temperature in FNHTR**

- A.  $>2^{\circ}\text{C}$
- B.  $>1^{\circ}\text{C}$
- C.  $>3^{\circ}\text{C}$
- D. None of the above

Answer: B

**63. Infectious agent transmitted by white cells in a blood product**

- A. HBV
- B. Tryponemia pallidum
- C. Plasmodium malaria
- D. Cytomegalovirus

Answer: D



**64. All are clinical features of iron overload**

- A. Heart failure
- B. Diabetes
- C. Hyperthyroidism
- D. Liver failure

Answer: C

**65. Which of the following blood group gene is located in chromosome I?**

- A. Kell
- B. Kidd
- C. Duffy
- D. Lutheran

Answer: C

**66. Maximum age for a first time blood donor**

- A. 50 yrs
- B. 60 yrs
- C. 40 yrs
- D. 45 yrs

Answer: B

**67. Patient with body surface area of  $2 \text{ m}^2$  is transfused with  $4 \times 10^{11}$  platelet, initial platelet count of  $5000/\mu\text{l}$  and post transfusion count  $25000/\mu\text{l}$ . What would be the corrected count increment?**

- A.  $5000/\mu\text{l}$
- B.  $10,000/\mu\text{l}$
- C.  $20,000/\mu\text{l}$
- D.  $8000/\mu\text{l}$

Answer: B

**68. Most important antibody causing TRALI?**





- A. HNA-3a
- B. HNA-2a
- C. HNA-1a
- D. None of the above

Answer: A

**69. Routine premedication to transfusion recipient is**

- A. Advised
- B. Not advised
- C. Optional
- D. None of the above

Answer: B

**70. Lethal triad of massive transfusion**

- A. Anemia, coagulopathy and hypothermia
- B. Coagulopathy, hypothermia, acidosis
- C. Hypothermia, acidosis, anemia
- D. Anemia, coagulopathy, acidosis

Answer: B

**71. Focus of oxygen sensor in foetus is**

- A. Kidney
- B. Liver
- C. Carotid sinus
- D. Spleen

Answer: B

**72. Approximately at \_\_\_\_\_ age children attain the adult value of PT, aPTT and INR**

- A. 6 years
- B. 10 years
- C. 8 years
- D. 16 years



Answer: D

**73. False statement about CD44 glycoprotein**

- A. Present on most of the tissues
- B. Minor component of RBC membrane
- C. Involved in T and B cell activation
- D. Involved in WBC adhesion activities

Answer: B

**74. One transfusion set can be used for multiple transfusions up to**

- A. 6 hrs
- B. 4 hrs
- C. 12 hrs
- D. 24 hrs

Answer: B

**75. Best filter to transfuse leuco reduced and irradiated single donor plasma is**

- A. Standard blood filter
- B. Macroaggregate filter
- C. Leuco reduction filter
- D. Irradiation filter

Answer: A

**76. Anticoagulant commonly used in Apheresis procedure**

- A. CPD
- B. ACD
- C. CPDA
- D. EDTA

Answer: B



**77. This reagent is not used to enhance antigen antibody reaction**

- A. DTT
- B. Polybrene
- C. PEG
- D. Ficin

Answer: A

**78. Refrigerated whole blood reduces the transmissions of**

- A. Hepatitis A
- B. Hepatitis B
- C. Hepatitis C
- D. Syphilis

Answer: D

**79. Blood group antigen that is not enlisted in the routine antibody identification panel is**

- A. M
- B. I
- C.  $\text{Le}^a$
- D.  $\text{JK}^a$

Answer: B

**80. In large volume neonatal transfusions nephrotoxicity is due to the metabolite**

- A. Sodium metaphosphate
- B. Adenosine dioxamine
- C. 1, 4-dioxy chloroquine
- D. 2, 8-dioxy adenine

Answer: D



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