

PROVISIONAL ANSWER KEY

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Exam:	Assistant Professor in Transfusion Medicine(Blood Bank)
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Department	Medical Education
Alphacode	A

Question1:-The day which is referred to as the day of commencement of Indian constitution?

A:-26th November 1949

B:-13th December 1947

C:-26th January 1950

D:-26th January 1930

Correct Answer:- Option-C

Question2:-The term 'Secular' is added to the Preamble of the Indian constitution by the

A:-42nd Amendment

B:-46th Amendment

C:-73rd Amendment

D:-17th Amendment

Correct Answer:- Option-A

Question3:-The statutory official in India who can participate in the Lok Sabha discussion but cannot vote

A:-Chairman Finance Commission

B:-Chief Election Commission

C:-Comptroller and Auditor General

D:-Attorney General

Correct Answer:- Option-D

Question4:-The division of powers between the Union and State governments is provided under

A:-Article 246

B:-Article 280

C:-Article 276

D:-Article 270

Correct Answer:- Option-A

Question5:-The National Rural Employment Guarantee Act was passed in

A:-2000

B:-2002

C:-2001

D:-2004

Correct Answer:- Option-B

Question6:-The first protestant missionary to arrive in Kerala

A:-John Cox

B:-Ringeltaube

C:-Charles Meed

D:-Henry Baker

Correct Answer:- Option-B

Question7:-The founder of Prathyaksha Raksha Daiva Sabha was

A:-Poykayil Yohannan

B:-Abraham Malpan

C:-Pampadi John Joseph

D:-Kuriakose Chavara

Correct Answer:- Option-A

Question8:-Paliyam Satyagraha was officially inaugurated by

A:-A.K. Gopalan

B:-P.K. Chathan Master

C:-K. Kelappan

D:-C. Kesavan

Correct Answer:- Option-D

Question9:-The royal proclamation of 1859, granting the Nadar women right to cover their upper body was issued by

A:-Sri Chithira Thirunal Bala Rama Varma

B:-Uthram Thirunal Marthanda Varma

C:-Karthika Thirunal Lakshmi Bai

D:-Moolam Thirunal Rama Varma

Correct Answer:- Option-B

Question10:-The Malayalam News paper edited by Moorkoth Kumaran

A:-Samadarsi

B:-Prabhatham

C:-Mithavadi

D:-Malayalee

Correct Answer:- Option-C

Question11:-Samastha Kerala Pusthakalaya Samiti was started in

A:-Kozhikkode

B:-Kottayam

C:-Thrissur

D:-Palakkad

Correct Answer:- Option-C

Question12:-The founder of the women's magazine 'Sreemathi'

A:-Akkamma Cheriyan

B:-Anna Chandi

C:-Arya Pallam

D:-Lalitha Prabhu

Correct Answer:- Option-B

Question13:-The Kerala Pulaya Mahasabha was established by

A:-Pandit Karuppan

B:-Sahodaran Ayyappan

C:-Ayya Vaikundar

D:-P.K. Chathan Master

Correct Answer:- Option-D

Question14:-The social reformer who penned the prayer 'Daivadasakam'

A:-Sree Narayana Guru

B:-Chattampi Swamikal

C:-Brahmananda Sivayogi

D:-Vagbhadananda

Correct Answer:- Option-A

Question15:-'Ethirppu' is the biography of

A:-Ponkunnam Varkey

B:-C. Krishna Pillai

C:-Kesav Dev

D:-S.K. Pottakkad

Correct Answer:- Option-C

Question16:-The first Malayalam drama was written by

A:-Kodungallur Kunjikuttan Thampuran

B:-Kerala Varma Valiya Koyi Thampuran

C:-Kodungallur Kochunni Thampuran

D:-A.R. Raja Raja Varma

Correct Answer:- Option-B

Question17:-The first News Paper in English in South India was established by (Madras Standard)

A:-T.R. Krishnaswami Iyer

B:-T.K. Madhavan

C:-Govindan Parameswaran Pillai

D:-Abdul Khader Moulavi

Correct Answer:- Option-C

Question18:-The first carbon free state in India

A:-Himachal Pradesh

B:-Uttar Pradesh

C:-Sikkim

D:-Madhya Pradesh

Correct Answer:- Option-A

Question19:-PMUY (Prantan Mantri Ujjwal Yogana) stands for the Central Government Scheme of

- A:-Free electrification
- B:-Free sanitation facility
- C:-Free house building
- D:-Free LPG connection

Correct Answer:- Option-D

Question20:-The first state in India to pass the motion in Legislative Assembly supporting demonitisation of rupees 1000 and 500 bank notes

- A:-Madhya Pradesh
- B:-Chattisgarh
- C:-Assam
- D:-Gujrat

Correct Answer:- Option-B

Question21:-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

Correct Answer:- Option-B

Question22:-First blood bank in India was established at

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

Correct Answer:- Option-B

Question23:-AIDS cases are reported first in the year

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

Correct Answer:- Option-C

Question24:-World's first hospital blood bank at cook county hospital, Chicago was began by

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

Correct Answer:- Option-B

Question25:-Professional Blood donation banned in India since

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

Correct Answer:- Option-C

Question26:-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

Correct Answer:- Option-C

Question27:-License of Blood storage centre is valid for

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

Correct Answer:- Option-B

Question28:-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
Correct Answer:- Option-A

Question29:-Govt. of India published the National Blood policy in the year
A:-2002
B:-2000
C:-1999
D:-2001
Correct Answer:- Option-A

Question30:-Cycle of disaster management include
A:-Preparedness
B:-Response
C:-Recovery
D:-All of the above
Correct Answer:- Option-D

Question31:-Approved additive solutions for RBC storage are all except
A:-AS-1
B:-AS-2
C:-AS-3
D:-AS-4
Correct Answer:- Option-B

Question32:-Frozen RBC can be stored up to
A:-10 years
B:-25 years
C:-5 years
D:-One year
Correct Answer:- Option-A

Question33:-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
Correct Answer:- Option-A

Question34:-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
Correct Answer:- Option-B

Question35:-Expiry date of irradiated platelet is
A:-1 day
B:-3 days
C:-7 days
D:-No change from original expiration date
Correct Answer:- Option-D

Question36:-ABO gene locus is in chromosome
A:-9q34.2
B:-19p13.3
C:-6p24.2
D:-4q28-q31
Correct Answer:- Option-A

Question37:-Latest included blood group is ISBT is
A:-LAN
B:-VEL
C:-AUG
D:-FORS
Correct Answer:- Option-C

Question38:-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

Correct Answer:- Option-C

Question39:-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`

Correct Answer:- Option-B

Question40:-Of the following a non carbohydrate antigen is

A:-H

B:-Lewis

C:-I

D:-Rh

Correct Answer:- Option-D

Question41:-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-)

Correct Answer:- Option-C

Question42:-Half life of Hydroxy Ethyl Starch (HES)

A:-6 hrs

B:-12 hrs

C:-24 hrs

D:-48 hrs

Correct Answer:- Option-C

Question43:-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

Correct Answer:- Option-C

Question44:-Focus of oxygen sensor in foetus is

A:-Kidney

B:-Liver

C:-Carotid sinus

D:-Spleen

Correct Answer:- Option-B

Question45:-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

Correct Answer:- Option-D

Question46:-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

Correct Answer:- Option-B

Question47:-One transfusion set can be used for multiple transfusions up to

A:-6 hrs

B:-4 hrs

C:-12 hrs

D:-24 hrs

Correct Answer:- Option-B

Question48:-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
- Correct Answer:- Option-A

Question49:-Anticoagulant commonly used in Apheresis procedure

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

Correct Answer:- Option-B

Question50:-This reagent is not used to enhance antigen antibody reaction

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

Correct Answer:- Option-A

Question51:-Refrigerated whole blood reduces the transmissions of

- A:-Hepatitis A
- B:-Hepatitis B
- C:-Hepatitis C
- D:-Syphilis

Correct Answer:- Option-D

Question52:-Blood group antigen that is not enlisted in the routine antibody identification panel is

- A:-M
- B:-I
- C:-`Le^a`
- D:-`JK^a`

Correct Answer:- Option-B

Question53:-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

Correct Answer:- Option-D

Question54:-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

Correct Answer:- Option-B

Question55:-Albumen treatment is not indicated in

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

Correct Answer:- Option-C

Question56:-Transplantation of porcine heart valve to a man is an example of

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

Correct Answer:- Option-B

Question57:-5% Albumen as a plasma volume expander has a half life of

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

Correct Answer:- Option-C

Question58:-Granulocyte components to be transfused within _____ hrs after collection.

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

Correct Answer:- Option-B

Question59:-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

Correct Answer:- Option-D

Question60:-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

Correct Answer:- Option-C

Question61:-"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

Correct Answer:- Option-B

Question62:-Hyper coagulable state is associated with all except

- A:-Antithrombin deficiency
- B:-Increased protein S
- C:-Factor V Leiden mutation
- D:-F XII deficiency

Correct Answer:- Option-B

Question63:-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

Correct Answer:- Option-D

Question64:-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

Correct Answer:- Option-A

Question65:-Hematological malignancy associated with autoimmune hemolytic anemia is

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

Correct Answer:- Option-D

Question66:-Blood group system related to McLeod syndrome is

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

Correct Answer:- Option-A

Question67:-Strategies for augmenting cell dose in umbilical cord stem cell transplantation include all except

- A:-Ex vivo 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
- Correct Answer:- Option-C

Question68:-Percentage of red cell suspension used in column agglutination technique is

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

Correct Answer:- Option-A

Question69:-'Witebsky' test is used for

- A:-Irregular antibody detection
- B:-Secretory status
- C:-Compatibility test
- D:-Transfusion reactions

Correct Answer:- Option-B

Question70:-Elution method good for eluting IgG antibody

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

Correct Answer:- Option-B

Question71:-Auto antibody specificity in PCH patients is

- A:-I
- B:-i
- C:-P
- D:-`p^k`

Correct Answer:- Option-C

Question72:-Source of Erythropoietin

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

Correct Answer:- Option-D

Question73:-Antibody in renal patients undergoing dialysis with formaldehyde sterilized machine

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

Correct Answer:- Option-B

Question74:-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

Correct Answer:- Option-D

Question75:-Sulf hydryl reagents are all except

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

Correct Answer:- Option-A

Question76:-Colour of the label used for autologous transfusions units

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

Correct Answer:- Option-C

Question77:-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

Correct Answer:- Option-B

Question78:-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

Correct Answer:- Option-D

Question79:-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:- $\leq -80^{\circ}\text{C}$

Correct Answer:- Option-A

Question80:-Tests for QC of peripheral blood stem cells include

A:-Clonogenic assay

B:-Cell viability

C:-Sterility testing

D:-All of the above

Correct Answer:- Option-D

Question81:-A peripheral stem cell donor can't donate blood/apheresis for _____.

A:-1 year

B:-6 months

C:-3 months

D:-3 years

Correct Answer:- Option-B

Question82:-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

Correct Answer:- Option-B

Question83:-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

Correct Answer:- Option-A

Question84:-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

Correct Answer:- Option-B

Question85:-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

Correct Answer:- Option-A

Question86:-Kymriah is _____.

A:-Drug used in ALL

B:-Blood substitute

C:-Reagent

D:-Mixed field reaction

Correct Answer:- Option-A

Question87:-Contents in ZZAP reagent

A:-DTT + Albumin

B:-DTT + Ficin

C:-PEG + Ficin

D:-DTT + ZME

Correct Answer:- Option-B

Question88:-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

Correct Answer:- Option-A

Question89:-Rise in temperature in FNHTR

A:->2°C

B:->1°C

C:->3°C

D:-None of the above

Correct Answer:- Option-B

Question90:-Infectious agent transmitted by white cells in a blood product

A:-HBV

B:-Trypanemia pallidum

C:-Plasmodium malaria

D:-Cytomegalovirus

Correct Answer:- Option-D

Question91:-All are clinical features of iron overload

A:-Heart failure

B:-Diabetes

C:-Hyperthyroidism

D:-Liver failure

Correct Answer:- Option-C

Question92:-Which of the following blood group gene is located in chromosome 1?

A:-Kell

B:-Kidd

C:-Duffy

D:-Lutheran

Correct Answer:- Option-C

Question93:-Maximum age for a first time blood donor

A:-50 yrs

B:-60 yrs

C:-40 yrs

D:-45 yrs

Correct Answer:- Option-B

Question94:-Patient with body surface area of 2 m^2 is transfused with 4×10^{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/ μl

B:-10,000/ μl

C:-20,000/ μl

D:-8000/ μl

Correct Answer:- Option-B

Question95:-Most important antibody causing TRALI?

A:-HNA-3a

B:-HNA-2a

C:-HNA-1a

D:-None of the above

Correct Answer:- Option-A

Question96:-Routine premedication to transfusion recipient is

A:-Advised

B:-Not advised

C:-Optional

D:-None of the above

Correct Answer:- Option-B

Question97:-Lethal triad of massive transfusion

A:-Anemia, coagulopathy and hypothermia

B:-Coagulopathy, hypothermia, acidosis

C:-Hypothermia, acidosis, anemia

D:-Anemia, coagulopathy, acidosis

Correct Answer:- Option-B

Question98:-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

Correct Answer:- Option-A

Question99:-Not used as an adjunct in transfusion therapy for trauma and burns patient

A:- ϵ amino caproic acid

B:-Tranexamic acid

C:-Methyl cellulose

D:-None of the above

Correct Answer:- Option-C

Question100:-_____ substance is present in hydatid cyst fluid.

A:- Le^b

B:- Tj^a

C:- P^k

D:- Le^x

Correct Answer:- Option-C