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# BRAINWARE UNIVERSITY

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Barasat, Kolkata - 700125

Term End Examination 2021 - 22

Programme – Bachelor of Science in Medical Lab Technology

Course Name – Blood Banking & Blood Transfusion

Course Code - BMLT601

( Semester VI )

Time allotted : 1 Hrs.15 Min.

Full Marks : 60

[The figure in the margin indicates full marks.]

### Group-A

(Multiple Choice Type Question)

1 x 60=60

Choose the correct alternative from the following :

(1) Which is important for ABO antigen?

- a) H substance
- b) I substance
- c) Alpha antigen
- d) Beta antigen

(2) Blue colour of antisera A is due to?

- a) Trypan Blue
- b) Methylene Blue
- c) Cynide
- d) None of the above

(3) Donated blood undergoes screening for which diseases?

- a) AIDS
- b) Viral hepatitis
- c) Diabetes
- d) 1 & 2 both

(4) A normal healthy man can donate blood after how many months?

- a) 2 months
- b) 3 months
- c) 6 months
- d) After 1 year

(5) The D antigen present in?

- a) Platelets
- b) RBCs
- c) WBCs
- d) None of these

(6) Fresh frozen plasma store for-

- a) 5 years at -70
- b) 1 year at -4
- c) 24 hrs. at -20
- d) 71 hrs. at room temp.

(7) Formation of blood cell is called :

- a) Mitosis
- b) Hemopoiesis
- c) Photosynthesis
- d) Complement fixation

(8) During blood donation, the removal of blood components is called

- a) Cytophresis
- b) Plasmaphresis
- c) Aphresis
- d) Leakophresis

- (9) In Sickle cell anemia, red cell count is:
- a) Increased  
b) Reduced  
c) Normal  
d) None
- (10) Size of RBC is :
- a) 10 micro meter  
b) 7 micro meter  
c) 8 micro meter  
d) None
- (11) O Negative is universal?
- a) Donor  
b) Recipient  
c) Donor as well as Recipient  
d) All of the above
- (12) Removal of specific component of blood for human body by process of-
- a) Apheresis  
b) Centrifuge  
c) All of these  
d) None of these
- (13) Platelet Rich Plasma prepared in how much hour after collection?
- a) 24 hrs.  
b) 8 hrs.  
c) 6 hrs.  
d) Anytime but should be referigerated
- (14) The D antigen is present in?
- a) Platelets  
b) RBCs  
c) WBCs  
d) None of these
- (15) Rh blood grouping discovered by?
- a) Karl Landsteiner+ Weiner  
b) Weiner + Alexandxer Fleming  
c) Alexander Fleming  
d) Karl Landsteiner
- (16) 450 ml of blood require how much amount of anticoagulant?
- a) 49 ml  
b) 63ml  
c) 50 ml  
d) 36ml
- (17) Which needle is used for blood donation?
- a) 21g  
b) 10g  
c) 16g  
d) 23g
- (18) Most common chemical that used as blood bank anticoagulant?
- a) EDTA  
b) Heparin  
c) Tri sodium citrate  
d) Double oxalate
- (19) Advantage of blood donation to donor
- a) Free health check up  
b) Reduce iron in body  
c) Decrease heart disease  
d) All of these
- (20) What is anticoagulant?
- a) Liquids which stop bleeding  
b) Chemical which prevent bleeding  
c) Salt that allow blood to clot  
d) None of these
- (21) Blood grouping and crossmatching is must prior to infusion of:
- a) Gelatin  
b) Albumin  
c) Dextran  
d) Hemaceal
- (22) Massive blood transfusion is defined as:
- a) Whole blood volume in 24 hrs.  
b) Half blood volume in 24 hrs.  
c) 40% blood volume in 24hrs.  
d) 60% blood volume in 24 hrs.
- (23) How long can blood stored with CPDA?
- a) 12 days  
b) 21 days  
c) 28 days  
d) 48 days

- (24) Which of these is better indicator for the need of transfusion?  
 a) Urine output  
 b) Hematocrit  
 c) Colour of skin  
 d) Clinical examination
- (25) One unit of fresh blood arises the Hb% concentration by:  
 a) 0.1 gm%  
 b) 1 gm%  
 c) 2 gm%  
 d) 2.2 gm%
- (26) The normal platelet count in adult is:  
 a) 100,000 to 300,000mm<sup>3</sup>  
 b) 150,000 to 250,000mm<sup>3</sup>  
 c) 150,000 to 450,000mm<sup>3</sup>  
 d) 200,000 to 300,000 mm<sup>3</sup>
- (27) Which method is preferable for ABO grouping?  
 a) Slide method  
 b) Tube method  
 c) Both  
 d) None
- (28) Haemoglobin measurement in blood donation camp is done by?  
 a) Copper sulphate soln.  
 b) Cyanmethemoglobin  
 c) Both  
 d) None
- (29) Super transfusion protocol in thalassemic children recommended hb target is?  
 a) 8-9 gm/dl  
 b) 9-10 gm/dl  
 c) 10-11 gm/dl  
 d) 11-12 gm/dl
- (30) 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 ml/kg body wt.  
 d) 12.5 ml/kg body wt.
- (31) Which anticoagulant is used in blood bag?  
 a) CPDA-1  
 b) Acid  
 c) Both  
 d) None
- (32) Blood safety test is done by?  
 a) Elisa  
 b) Dot test  
 c) Both  
 d) None
- (33) Which one is complete antibody?  
 a) IgM  
 b) IgG  
 c) Both  
 d) None
- (34) Colour of Anti A is  
 a) Blue  
 b) Yellow  
 c) Both  
 d) None
- (35) Colour of Anti B is  
 a) Yellow  
 b) Green  
 c) Both  
 d) None
- (36) Colour of Anti D is  
 a) Colourless  
 b) Green  
 c) Both  
 d) None
- (37) Formation of blood cell is called?  
 a) Mitosis  
 b) Hemopoiesis  
 c) Photosynthesis  
 d) Complement Fixation
- (38) In sickle cell anemia, red cell count is  
 a) Reduced  
 b) Increased

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- c) Normal  
(39) The disease can't be transmitted through transfusion of blood is  
a) Hepatitis B  
c) Cancer  
(40) Primary reaction of Ag-Ab interaction is;  
a) Invisible  
c) Visible  
(41) Anticoagulant commonly used in apheresis procedure  
a) CPD  
c) CPDA  
(42) Normal RBC range  
a) 4.3 - 5.7  
c) 7.5 - 11.5  
(43) Normal Hgb range  
a) 13.2 - 17.3  
c) 0.5 - 1  
(44) Normal MCV range  
a) 2 - 8  
c) 55 - 70  
(45) Normal Hct range  
a) 55 - 70  
c) 39 - 49  
(46) Normal MCH range  
a) 39 - 49  
c) 26 - 36  
(47) A donor is considered as deferred if donor is infected with ?  
a) Havind Diahorrea  
c) HIV Positive  
(48) Hemolytic Disease of new born in manifested ?  
a) Mother is Rh Positive, Baby is Rh Negative  
c) Mother is Rh Negative, Baby is Rh Positive  
(49) A person having Blood Group AB Positive is ?  
a) Universal Donor  
c) Both 1 and 2  
(50) What are the hepatitis virus screened in donor blood ?  
a) A and B  
c) A and C  
(51) Most abundant blood cells in the human body are  
a) WBCs  
c) Platelets  
(52) Commonest anaemia in India is  
a) Pernicious anaemia  
c) Iron deficiency anaemia  
(53) In the ABO system, blood group 'O' is characterized by the  
a) presence of antigen O
- d) None  
b) AIDS  
d) Malaria  
b) pH dependent  
d) No reaction  
b) ACD  
d) EDTA  
b) 4.5 - 11  
d) None of the these  
b) 4.5 - 11  
d) None of the these  
b) 80 - 100  
d) None of the these  
b) 26 - 36  
d) None of the these  
b) 80 - 100  
d) None of the these  
b) Hepatitis A  
d) All of the above  
b) Mother is Rh Positive, Baby is Rh Positive  
d) Mother is Rh Negative, Baby is Rh Negative  
b) Universal Recipient  
d) None of these  
b) B and C  
d) A, B and C  
b) RBCs  
d) Plasma Cells  
b) Sickle cell anaemia  
d) None of these  
b) presence of both antigen A and antigen B



- c) absence of both antigen A and antigen B      d) presence of antigen A and absence of antigen B
- (54) Antiserum is
- a) blood serum containing specific antibodies      b) blood serum containing specific antigens  
c) blood serum containing a mixture of antigens and antibodies      d) blood serum in which antigens and antibodies are both absent
- (55) Which antibodies are found in the plasma of a person with type A blood?
- a) anti-A, but not anti B      b) neither anti-A nor anti B  
c) both anti-A and anti B      d) anti-B, but not anti-A
- (56) Human blood types in the ABO blood group are identified by
- a) clotting factors in plasma      b) microscopic examination of white blood cells  
c) antigen-antibody reactions      d) series of enzyme controlled reactions
- (57) What is the process of transfer of human blood known as?
- a) Transfusion      b) Processing  
c) Transporting      d) Transferring
- (58) Which is the rarest blood group?
- a) AB negative      b) AB positive  
c) O negative      d) O positive
- (59) Blood bag is disposed of in
- a) red bag      b) yellow bag  
c) green bag      d) black bag
- (60) What prevents clotting of blood in blood vessels
- a) Serotonin      b) Fibrinogen  
c) Heparin      d) Fibrin

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