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BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Sc.(MLT)-2020

Course Name – Blood Banking & Blood Transfusion

Course Code - BMLT601

(Semester VI)

Full Marks : 60

Time : 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

1. Choose the correct alternative from the following :

- (i) Name the anticoagulant is used in blood bag?
 - a) CPDA-1
 - b) Oxalate
 - c) Both
 - d) None of these
- (ii) Indicate the correct option :All coagulation factors are stable at low freezing point except:
 - a) Factor V & VIII
 - b) Factor IX & X
 - c) Factors IV & V
 - d) Factors V & VII
- (iii) Select which one is complete antibody?
 - a) IgM
 - b) IgG
 - c) IgE
 - d) None of these
- (iv) Report the correct one.All of the following infections may be transmitted via blood transfusion, except:
 - a) Parvo B19
 - b) Dengue virus
 - c) hepatitis
 - d) cytomegalovirus
- (v) write the true option .License of blood storage centre is valid for ;
 - a) 3 yrs
 - b) 2 yrs
 - c) 5 yrs
 - d) 1 yr
- (vi) Report the correct one. Recommended temperature for storage of cryopreserved umbilical cord blood cells -
 - a) -150°C
 - b) -210°C
 - c) -100°C
 - d) -80°C
- (vii) write the true option .Which one is Universal recipient ?
 - a) AB positive
 - b) AB negative
 - c) O positive
 - d) O Negative
- (viii) Write the true facts about blood transfusions:
 - a) Antigen 'D' determines Rh positivity
 - b) Febrile reaction is due to HLA antigens
 - c) Anti-d is naturally occurring antibody
 - d) Cryoprecipitate contains all coagulation factors

- (ix) Indicate the correct one. Collection of blood for cross matching and grouping is done before administration of which plasma expander?
- a) Hydroxyl ethyl starch b) Dextran c.
c) Mannitol d) d. Hemadele
- (x) State which one is true: During blood donation, the removal of blood components is called.
- a) cytapheresis b) plasmapheresis
c) Apheresis d) Leukapheresis
- (xi) Select the correct option: Most common chemical that used as blood bank anticoagulant?
- a) EDTA b) Heparin
c) tri sodium citrate d) Double oxalate
- (xii) State which one is true: Before 24hr which type of donor should be avoided for donation?
- a) Person who drunk alcohol b) Dental extraction patient
c) Menstrual bleed women d) All of these
- (xiii) Indicate the correct option: Blood safety test is done by?
- a) Elisa b) DOT test
c) both d) none of these
- (xiv) Predict which one is true: Which one is complete antibody?
- a) IgM b) IgG
c) both d) None of these
- (xv) Predict which one is true. Hemolytic Disease of new born manifested?
- a) Mother is Rh Positive, Baby is Rh Negative b) Mother is Rh Negative, baby is Rh positive
c) Mother is Rh Positive, Baby is Rh positive d) Mother is Rh negative, Baby is Rh Negative

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Write the common source of error in blood grouping (3)
3. Show the anticoagulants used to collect blood for transfusion (3)
4. Describe Landsteiner's Law and report in which blood grouping system it is applicable? (3)
5. Classify the blood grouping system (3)
6. Predict if you are with A blood group what will be your genotype (3)

OR

- Predict if you are with B blood group what will be your genotype (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Inspect the role of Mendelian law in ABO blood group (5)
8. Deduce how will you eliminate the source of errors in forward and reverse grouping (5)
9. Explain the hydrops fetalis (5)
10. Write the hazards of mismatched blood transfusion (5)
11. Justify the steps of quality control in blood banking (5)
12. Summarize about quality control of whole blood (5)

OR

- Recommend the procedure of tube method (5)
