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BRAINWARE UNIVERSITY

Term End Examination 2023

Programme – B.Sc.(MLT)-2019

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) Write the correct option: ACD preserved blood is suitable for at least :

- | | |
|----------------------------|---------------------------|
| a) 7 days after donation | b) 30 days after donation |
| c) 3 months after donation | d) 21 days after donation |

(ii) Identify the correct option. Precautions to be taken while collecting blood include all except

- | | |
|---------------------------------|--|
| a) Venepuncture should be clean | b) Blood flow should be rapid and uninterrupted |
| c) Bag should never be agitated | d) Appropriate volume of blood should be collected |

(iii) Indicate the correct option. Levey-Jennings Chart is used in blood bank for

- | | |
|--------------------------|--------------------------------|
| a) Quality control | b) Copper sulphate preparation |
| c) Hemoglobin comparison | d) Charting theatre cases |

(iv) Identify which of the following is the least likely complication after massive blood transfusion?

- | | |
|---------------------|-----------------------|
| a) Hyperkalemia | b) Hypothermia |
| c) Citrate toxicity | d) metabolic acidosis |

(v) Select the correct option. Fresh hold blood transfusion is done with in how much time of collection

- | | |
|----------------|------------|
| a) immediately | b) 1 hour |
| c) 4 hour | d) 24 hour |

(vi) predict the correct one. Blood grouping and cross-matching is must prior to infusion of:

- | | |
|-------------|------------|
| a) Gelatine | b) Albumin |
| c) Dextran | d) FFP |

(vii) Select the correct option: Rh blood grouping discovered by?

- | | |
|-----------------------------|-------------------------------|
| a) Karl Landsteiner+ Weiner | b) Weiner + Alexander Fleming |
| c) Alexander Fleming | d) Karl Landsteine |

- (viii) Select the correct option. True about FFP (Fresh frozen plasma) is the following except:
- a) Good source of all coagulation factors b) Prepared from single unit of blood
 c) Coagulation factor levels are equal to Plasma d) none of these
- (ix) Report the correct one :Frozen RBC can be stored up to?
- a) 10 yrs b) 25 yrs
 c) 5 years d) 1 yr
- (x) Predict which one is true. Hemolytic Disease of new born in 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
- (xi) Predict which one is true, Blood bag is disposed of in ;
- a) Red bag b) Yellow bag
 c) green bag d) Black bag
- (xii) 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
- (xiii) Select which one is complete antibody?
- a) IgM b) IgG
 c) IgE d) None of these
- (xiv) 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
- (xv) choose the right one. Which among the following is the best source of safe blood?
- a) Voluntary non-remunerated donors b) Replacement donors
 c) Professional donor d) Directed donor

Group-B

(Short Answer Type Questions)

3 x 5=15

2. Describe Landsteiner's Law and report. In which blood grouping system it is applicable? (3)
3. Report why the enzyme papain is important in blood banking. (3)
4. Write about Bombay Blood group. (3)
5. Write a note on frozen platelet. (3)
6. Prepare a list of precaution you will take to store antisera (3)

OR

compile the list of the infectious disease to be ruled out before transfusion (3)

Group-C

(Long Answer Type Questions)

5 x 6=30

7. Define Erythroblastosis foetalis
8. match the criteria of selection of a good donor (5)
9. Summarise the procedure of preparation of the various components of blood for transfusion (5)
10. Justify : the patients with bleeding disorder given fresh frozen plasma and platelet concentrate (5)
11. Explain the hydrops fetalis
12. Prepare the various fraction of blood (5)

OR

Justify the role of PFC as blood substitute (5)

(5)