Course Code: BMD 226

Course title: Blood Transfusion and Techniques ii SECTION A MCQ

- 1. Immedietly after an acute transfusion reaction
 - a) All antibodies may be found in donors RBCs
 - b) RBCs are haemolysed
 - c) Perform elution test
 - d) RBCs are not haemolysed
- 2. Bombay phenotype individuals are
 - a) Sectetors
 - b) Have antibodies A and B
 - c) Blood group O negative
 - d) Have antigen A and B
- 3. The phenotype O^h red cells are not agglutinated by
 - a) Anti K
 - b) Anti T
 - c) Anti M
 - d) Anti H
- 4. Fisher Race dce is equivalent to Weiners
 - a) rh_y
 - b) rh^{ii}
 - c) rh
 - d) Rhz
- 5. 22% Bovine albumin is used in compatibility test to:
 - a) Reduce zeta potential
 - b) Increase zeta potential
 - c) Decrease dielectric constant
 - d) Maintain zeta potential
- 6. Which of the following will give rise to all the four ABO blood groups?
 - a) A x A
 - b) A x O
 - c) AB x O
 - d) A x B
- 7. D^U test is done to:
 - a) Confirm compatibility testing
 - b) All positive Rhesus grouping
 - c) Detect weak D antigen
 - d) Reverse grouping only

- 8. The terminal sugar for blood group B is:
 - a) N- acetylgalactosamine
 - b) L- fucose
 - c) D-galactose
 - d) Oligosaccharide
- 9. Febrile blood transfusion reaction may be caused by:
 - a) Pyrogens
 - b) Dextran
 - c) Microembolism
 - d) Sterile saline
- 10. The following conditions could give rise to Rhesus immunization:
 - a) Infection
 - b) Pregnancy
 - c) Pollution
 - d) Anaemia
- 11. Genes that occupy the same loci are known as:
 - a) Amorph
 - b) Alleles
 - c) Silent
 - d) Recessive
- 12. These antibodies are common in cold auto immune haemolytic anaemia
 - a) IgG
 - b) IgA
 - c) IgE
 - d) IgM
- 13. The indirect antiglobulin test is used to test red cells that have been sensitized:
 - a) In vitro
 - b) In vivo
 - c) After elution techniques have been carried out
 - d) With any IgM antibody
- 14. What amount of blood is usually taken from a blood donor?
 - a) 405 mls
 - b) 450 mls
 - c) 550 mls
 - d) 600 mls
- 15. Hydatid cyst fluid inhibit:
 - a) Anti A_1
 - b) Anti-I
 - c) Anti P_1

- d) Anti K_x
- 16. The X_g blood group system:
 - a) Is a sex linked blood group system
 - b) Is carried by the Y- chromosome
 - c) Cause HDNB
 - d) Is carried by the autosomal chromosome
- 17. Which of the following enzyme is commonly used in blood bank:
 - a) D-galactose
 - b) L acetyl chloride
 - c) Trypsin
 - d) Gloconate
- 18. Immune antibodies have the following characteristic:
 - a) IgA
 - b) IgE
 - c) IgG
 - d) IgM
- 19. Which of the following are characteristics of anti- K
 - a) Causes HDNB
 - b) Reacts best in saline
 - c) Does not react in AHG
 - d) can be produced in animals
- 20. The purpose of pooling O cells in antibody screening test is:
 - a) To avoid lysis of the RBCs
 - b) To identify the antibodies
 - c) To avoid interference of ABO antibodies
 - d) To have as many as possible of antigenic sites

SECTION B

- 1. Outline the D^u procedure (8 marks)
- 2. List 4 basic blood components prepared in the blood bank and mention their indication (8 marks)
- 3. Describe HDNB caused by ABO incompatibility including its treatment (8 marks)
- 4. Differentiate between Direct coomps test and indirect coomps test (8 marks)
- 5. Explain using practical example preparation of Red cell suspention (8 marks)

SECTION C

- 1. Explain the processes dononated blood goes through from donor selection upto the time it is released for transfusion (20 marks)
- 2. Explain in details laboratory investigation of transfusion reaction (20 marks)