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BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – B.Sc.(PA)-2022
Course Name – Hematology & Clinical Biochemistry
Course Code - BPAC203
(Semester II)

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. Choose the correct alternative from the following:

- (i) Choose the right option. Following is the pyrimindin base.
 - a) Adenine

b) Guanine

c) uracil

- d) CoA
- (ii) Identify the correct statement regarding Holoenzyme
 - a) Functional unit

b) Apo enzyme

c) Coenzyme

- d) All of these
- (iii) Indicate the dietary sources of Preformed Vitamin
 - a) Milk, fat and liver

b) all yellow vegetables

c) all yellow fruits

- d) leafy gren vegetables
- (iv) Predict the correct deficiency symptoms of Vitamin A
 - a) Xeropthalmia

b) Hypo prothrombinemia

c) Megaloblastic anemia

- d) Pernicious anemia.
- (v) Report the most potent Vitamin D metabolite out of the following options
 - a) 25-Hydroxycholecalciferol

- b) 1,25-Dihydroxycholecalciferol
- c) 24, 25-Dihydroxycholecalciferol
- d) 7-Dehydrocholesterol .CO3K
- (vi) Select the correct option. The following is produced with the combination of apoenzyme and coenzyme:
 - a) Holoenzyme

b) Enzyme substrate complex

c) Prosthetic group

- d) Enzyme product complex
- (vii) Indicate the correct one. The only IG to be able to cross the placental barrier is:
 - a) IgA

b) IgD

c) IgG

d) IgE

1 x 15=15

| (viii) | Predict which one is trueWhich one is complete | antibody? | |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------|
| | a) IgM c) both | b) IgG d) None of these | |
| (ix) | Predict the situation in which Hemolytic Disease of new born is manifested - | | |
| | b) Mother is Rh Positive, Baby is Rh Negative b) Mother is Rh Negative, baby is Rh positive d) Mother is Rh negative, Baby is Rh Negative ndicate the correct option :Which is the rarest blood group? | | |
| | a) AB positive | b) AB negative | |
| | c) O negative | d) O positiv | |
| (xi) | Report the correct one :The disease can\'t be transmitted through transfusion of blood is : | | |
| | a) Hepatitis B | b) AIDS | |
| | c) Cancer | d) malaria | |
| (xii) | Identify the correct sugar level in CSF of a fasting 80-120 mg/dl CO4. CO6K1 | man: A. 30-45 mg/dl B. 45-80 mg/dl C. | |
| | a) 30-45mg/dl | b) 45-80mg/dl | |
| | c) 80-120mg/dl | d) 10-20mg/dl | |
| (xiii) | Identify the correct general formula of monosaccharides - | | |
| | a) CnH2nOn | b) C2nH2On | |
| | c) CnH2O2n | d) CnH2nO2n | |
| (xiv) | Identify the essential amino acid in man- | | |
| | a) Cysteine | b) Leucine | |
| | c) tyrosine | d) Aspartic acid | |
| (xv) | 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) Hemacele | |
| | Grou | р-В | |
| (Short Answer Type Questions) | | | 3 x 5=1 |
| Distinguish between D- and L – isomers. Discuss the difference between cross matching and Test matching | | | (3) (3) |
| | entrast competitive and non competitive inhibition | | (3) |
| 5. Enumerate the functions of lipid | | | (3) |
| | rite a note on frozen platelet | | (3) |
| O | OI | R | |
| Fo | rmulate the type of changes in seen in TLC and D | LC in acute infection. | (3) |
| | Grou | • | F . 6 24 |
| | (Long Answer Ty | /pe Questions) | 5 x 6=30 |
| 7. Write down the uses of colorimeter in laboratory | | | (5) (5) |
| | Describe about structure and functions of starch and glycogen | | |
| 9. How do you manage a Rh negative mother before and after 1st pregnancy | | | (5) (5) |
| | 10. Classify lipids (5 11. Illustrate the functions of prostaglandins (5 | | |
| , - | | | (5) |
| _, _ | OI | R | |
| 1 | llustrate the term Trans fatty acids. | | (5) |
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