

V.M.K.V. Medical College, Salem – 636 308

DEPT. OF BIOCHEMISTRY - I MBBS – 2019– 2020 BATCH

TEST - 8 : METC, ACID BASE, DETOX, WATER SOL. VITAMINS

DATE: 21<sup>st</sup> February, 2020

Total : 30 marks

I. CHOOSE THE CORRECT ANSWER (MCQ)

(10 marks)

1. The normal anion gap is ----- mmol /L  
A) 3 - 5      B) 7 - 9      C) 10 - 14      D) 15 - 18
2. The enzymes involved in Detoxication are-  
A) Decarboxylases      B) Transaminases  
C) Cytochrome oxidases      D) Cytochrome P450 enzymes
3. Burning foot syndrome is due to the deficiency of –  
A) Biotin      B) Folic acid      C) Pantothenic acid      D) Ascorbic acid
3. Which of the following is a phase III reaction of detoxification?  
A) Deconjugation      B) Epoxidation  
C) Epimerisation      D) Ene diole formation
5. Split nail is seen in the deficiency of -  
A) Riboflavin      B) Biotin      C) Pyridoxine      D) Niacin
6. Complex IV of METC is inhibited by all of the following EXCEPT --  
A) Carbon monoxide      B) Carboxin      C) Cyanide      D) Azide
7. The number of ATPs generated from NADH involving reactions are –  
A) 1      B) 1.5      C) 2      D) 2.5
8. Which of the following is the co - enzyme for transketolase enzyme?  
A) Pyridoxal phosphate      B) Thiamin pyrophosphate  
C) Coenzyme A      D) Biotin
9. All of the following are Folate antagonists except –  
A) Sulfonamides      B) Avidin      C) Aminopterin      D) Pyrimethamine
10. All of the following are the sources of vitamin B12 EXCEPT-  
A) Liver      B) Meat      C) Egg      D) Carrot

II. SHORT NOTES:

(3x5=15 Marks)

- 1) Complexes of METC & their inhibitors
- 2) Phase II reactions of Detoxication
- 3) Renal regulation of acid base balance

III. BRIEF ANSWERS:

(2 x 2½=5Marks)

- 1) Pellagra
- 2) Folate trap