

23 MFDC09 Biochemical Changes in Diseases

Course Outcomes

1. Comprehend and relate the physiological changes in diseases
2. Apply biochemical principles for various disease conditions
3. Learn to interpret medical terminology and laboratory parameters relating to nutrition
4. Differentiate normal and abnormal biochemical parameters.
5. Understand the requisite biochemical parameters for healthy lifestyle.

Part- A

6x1=6

Circle the correct answer

1. What function of the kidneys is responsible for water homeostasis?
a). excretory b). metabolic c). endocrine d). digestive CO3 K2
2. Cancer is related to CO4K3
a) Non-malignant tumor b) uncontrolled growth of tissues
c) controlled division of tissues d) mutagenic agents
3. Apart from the conventional use, dialysis can also be used in scenarios of CO2K2
a) blood transfusions b) acute poisoning c) low blood pressure d) extreme fever
4. Which of the following is not a flatulence producing food CO4 K3
a) broccoli b) apple c) banana d) avocado
5. Which should be completely avoided when celiac disease is present? CO2K3
a) Gliadin b) Lactose c) alpha dextrinase d) Lentils
6. How much gastric juice is produced in 24 hours CO5K2
a) 0.5 to 1 lrs b) 1 to 1.5 lrs c) 1.5 to 2 lts d) 2 to 2.5 lts

Part B

3 x 6 = 18

Answer ALL questions

Each answer should not exceed 400 words or two pages

7. a. Write a short note on acute renal failure CO2K2
Or
b. Write the different stages of chronic kidney disease CO3K2
8. a. Explain the causes, symptoms, diagnostic methods and nutritional care of celiac disease CO3 K4
Or
b. Describe lactose tolerance test CO4 K2
9. a. Write a note on latest technologies in diagnosing renal function CO4K4
Or
b. Discuss the factors affecting drug absorption CO5K2

Part C

3 x 12 = 36

Answer ALL questions

Each answer should not exceed 800 words or four pages

- 10.a. Explain nitrogen metabolism with reference to urea and uric acid CO2K2
Or
b. Outline the different types of dialysis CO3K4
11. a. Explain the etiology and nutritional care of flatulence, diarrhoea and constipation CO3K3
Or
b. Describe the various disorders associated with small intestine CO3K2
- 12.a. Outline liver and pancreatic function tests CO4K3
Or
b. Discuss in detail on drug nutrient interaction CO4K2