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SEAT No. \_\_\_\_\_

No. of Printed Pages: 2

{61} SARDAR PATEL UNIVERSITY  
M.Sc. (Integrated) Biotechnology (IGMBT), Eight Semester Examination  
Friday, 22, March 2019  
02:00 p.m. to 5:00 p.m.  
PS08CIGMB2: Molecular Medicine 1

Total Marks: 70

- Note: (1) Figures to the right indicate marks.  
(2) Draw a neat and labeled diagram, wherever necessary.

**Q.1 Choose the most appropriate answer from the four alternatives given:** [8]

- (1) **The main cause of liver fibrosis include :**  
(a) chronic HCV infection (b) alcohol abuse (c) , non alcoholic steatohepatitis (NASH) (d) all of them
- (2) **Serum alanine aminotransferase level rise in :** (a) jaundice (b) fibrosis of liver (c) cirrhosis of liver (d) all of the above
- (3) **Which of the following is false? Nephrolithiasis means a condition marked by**  
(a) the presence of renal calculi.  
(b) the presence of inflammation  
(c) the presence protein in urine.  
(d) the presence hemoglobin in urine
- (4) **Which of the following is an inhibitor of calcium stone**  
(a) Oxalate (b) Citrate (c) Tyrosine (d) Glycine
- (5) **Which of the following gene is not considerate in Tumor suppressor gene:**  
(a) P53 (b) APC (c) BRCA1 (d) RAF
- (6) **Aflatoxin B1 causes:** (a) lung cancer (b) oral cancer (c) lung cancer (d) liver cancer
- (7) **Which of the following is consider as Microcytic- hypochromic anemia**  
(a) haemolytic anemia (b) Aplastic anemia (c) Thalassemia (d) all of the above
- (8) **Full name of TXA2 is :** (a) Thmroboxane A2 (b) Throdoxane A2 (c) Thromboxane A2 (d) none of them

**Q.2 Answer any SEVEN from the following:** [14]

- (1) Write a brief account on diagnosis of cirrhosis of liver.
- (2) What are ANTACIDS? Give their types.
- (3) Define Bence Jones protein
- (4) Define ESRD
- (5) Define Pyelonepritis
- (6) Discuss alpha Thalassemia in brief
- (7) Enlist types of hemoglobin based on occurrence
- (8) What is proto oncogene?
- (9) Enlist diagnostic evaluation of Congestive heart failure

(1)

(PTO)

- Q.3 (a)** Write a detail account on pathophysiology of liver fibrosis. [6]  
**(b)** Discuss physiology of gastric acid secretion in detail. [6]

**OR**

- (b)** Describe the causes and diagnosis peptic ulcer in detail. [6]

- Q.4 (a)** Classify glomerular disease. Explain any two in detail. [6]  
**(b)** Discuss pathophysiology of Kidney diseases in brief. [6]

**OR**

- (b)** Discuss types of dialysis in detail. [6]

- Q.5 (a)** How platelet plug occurs? Explain mechanism of action of anti platelet drugs in detail. [6]

- (b)** Enlist various hemoglobinopathies. Write a detailed note on pathology and mutations involved in sickle cell anemia. [6]

**OR**

- (b)** Write brief account on plasma Expander [6]

- Q.6 (a)** Discuss types, causes and pathophysiology of obesity in brief. [6]

- (b)** Give biochemical significance of any four cardiac markers. [6]

**OR**

- (b)** Explain pathophysiology of congestive heart failure. [6]



(2)