

{78} SARDAR PATEL UNIVERSITY
M.Sc. (Integrated) Biotechnology (IGMBT), Eight Semester Examination
Thursday, 12, April 2018
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) Which of the following are the inhibitors of matrix metalloproteinases
(a) TIMP 1 & 2 (b) TNF alpha and beta (c) none of them (d) all of them
- (2) Sodium Bicarbonate is a:
(a) Systemic antacid (b) locally acting antacid (c) Long acting (d) A and B Both
- (3) Fanconis syndrome is consider as :
(a) Glomerular diseases (b) Tubular disease (c) Renal Tubular Acidosis (d) All of the above
- (4) Which of the following drug depress H^+ for Na^+ exchange?
(a) Carbonic anhydrase inhibitors , (b) Loop diuretics (c) Electrolites (d) none of the above
- (5) Which of the following is consider as Normocytic- normochromic anemia
(a) haemolytic anemia (b) iron deficiency anaemia (c) Thalassemia (d) none of the above
- (6) PTT means :
(a) partial theoboplastin time (b) partial thromboplastin time (c) prolong prothrmbin time (d) none of them
- (7) The First tumor marker reported in 1847 was the:
(a) carbohydrate marker (b) PSA (c) Bence Jones protein (d) all of the above
- (8) Which of the following hormones used to detect breast cancer
(a) prolactin and progesterone (b) prolactin and estrogen (c) prolactin and hCG (d) none of the above

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

- (1) What is pre hepatic jaundice?
- (2) Write a brief account on the diagnosis of HAV
- (3) Enlist the types of diuretics
- (4) Enlist endogenous markers used to predict GFR.
- (5) What is renal tubular acidosis?
- (6) Define vascular phase of hemostasis
- (7) Define microcytic anemia
- (8) Define Atherosclerosis.
- (9) Define anticoagulants. Write the types of drugs used as anticoagulants.

PTO

- Q.3 (a) Write a detail account on pathophysiology of cirrhosis. [6]
(b) Discuss physiology of gastric acid secretion in detail [6]
OR
(b) Write a detail account on pathophysiology of hepatitis B. [6]
- Q.4 (a) Write a detail note on treatments of ESRD. [6]
(b) Define nephrolithiasis. Explain any two types of nephrolithiasis and its treatment in detail. [6]
OR
(b) Write brief account on acute renal failure. [6]
- Q.5 (a) Define anemia. Give aetiological and morphological classification of Anemia. [6]
(b) Write note on antithrombotic drug. [6]
OR
(b) Write detail account on bleeding disorders. [6]
- Q.6 (a) Discuss factors governing lipostat mechanism. [6]
(b) What is myocardial infarction? Explain how atherosclerosis can lead to myocardial infarction? [6]
OR
(b) Discuss various environmental factors responsible for the cause of cancer. [6]

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