

[A-98]

No. of Printed Pages: 2

SARDAR PATEL UNIVERSITY

M.Sc. (Integrated) Biotechnology (IGMBT), Eight Semester Examination

Thursday, 23<sup>rd</sup> April 2015

2:30 p.m. to 5:30 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) Urea breath test is used to diagnose  
(a) GIT disorders (b) Renal disorders (c) none of them (d) all of them
- (2) Coagulative necrosis occurs due to  
(a) hypoxia (b) hyperglycemia (c) Hypokalemia (d) none of them
- (3) Which of the following is an inhibitor of calcium stone  
(a) Oxalate (b) Citrate (c) Tyrosine (d) Glycine
- (4) Which of the following are the endogenous markers to assess GFR  
(a) Creatinine (b) Cystatin (c) beta 2 Microglobulin (d) all of them
- (5) What does von Willebrand factor do?  
(a) Cleaves factor V (b) Carries factor VII (c) Binds platelets to the subendothelium  
(d) all of them
- (6) PTT means : (a) partial thromboplastin time (b) partial thromboplastin time  
(c) prolong prothrombin time (d) none of them
- (7) Oncofetal antigens are produced  
(a) after immediately birth (b) during fetal life (c) during old age (d) none of them
- (8) Acute rheumatic fever is caused by  
(a) Group A streptococcal infection (b) fungal infections (c) both of them (d) none of them

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

- (1) Write a brief account on the diagnosis of HAV.
- (2) Give the classification of drug used in peptic ulcer.
- (3) Differentiate between acute and chronic renal failure.
- (4) What is glomerular filtration rate (GFR)?
- (5) What is anemia? Enlist symptoms of anemia.
- (6) Enlist components of the normal healthy haemostatic mechanism.
- (7) List the various markers of cardiac disorders.
- (8) Write brief account on tumor suppressor genes.
- (9) Define congestive heart failure.

PTO

- Q.3 (a)** Write a brief note on pathophysiology and diagnosis of peptic ulcer. [6]  
**(b)** Write a detail account proton pump inhibitors. [6]
- OR**
- (b)** Discuss pathophysiology of fibrosis of liver in detail. [6]
- Q.4 (a)** Discuss renal calculi in detail. [6]  
**(b)** Give detail account on exogenous markers to assess GFR. [6]
- OR**
- (b)** List the major classes of diuretics and how each class of diuretics operates to increase urine flow. [6]
- Q.5 (a)** Describe hemostasis mechanism in detail. [6]  
**(b)** Write detail note on antithrombotic drugs. [6]
- OR**
- (b)** Write detail account on macrocytic anemias. [6]
- Q.6 (a)** Enlist the various cardiac disorders and explain any one cardiac disorder with clinical signs and underlying pathophysiology. [6]  
**(b)** Discuss causes symptoms and treatments of atherosclerosis. [6]
- OR**
- (b)** Write symptoms, genetics and treatment of obesity in brief. [6]

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