

[LB121]

OCTOBER 2012

Sub. Code: 2018

M.D. DEGREE EXAMINATION
BRANCH V – PHYSIOLOGY

PAPER I –GENERAL PHYSIOLOGY, BLOOD, DIGESTION AND TISSUES OF THE
BODY

Q.P. Code : 202018

Time : 3 hours
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
I. Essay:			
1. Discuss the formation and functions of bile. Add a note on the pathophysiology of gall stone formation.	9	15	10
2. Describe the genesis of resting membrane potential. Write in detail about ionic basis of action potential.	9	15	10
II. Short Questions:			
1. Define immunity and write in detail about antibody mediated immune response.	3	8	5
2. Describe the physiological significance of fibrinolytic system.	3	8	5
3. Write briefly about active transport.	3	8	5
4. Describe the enteric nervous system.	3	8	5
5. Explain the role of platelets in health and disease.	3	8	5
6. Explain excitation contraction coupling in skeletal muscle.	3	8	5
7. Write about the physiology of vomiting.	3	8	5
8. Discuss about the role of erythropoietin in regulation of Erythropoiesis.	3	8	5
III. Reasoning Out:			
1. Exercise tolerance is reduced in anemic persons	5	10	5
2. The large intestine can absorb a maximum of 5 to 8 litres of fluid and electrolytes each day. Explain	5	10	5
3. Circulation overload following blood transfusion is serious in patients with renal failure.	5	10	5
4. Phototherapy is of value in treating infants with jaundice due to Hemolysis	5	10	5
IV. Very Short Answers:			
1. What is steatorrhea? Mention the causes for it.	1	4	2
2. What is muscular dystrophy?	1	4	2
3. What is plasticity of smooth muscle?	1	4	2
4. What is dumping syndrome?	1	4	2
5. What is critical micelle concentration?	1	4	2
6. What is mass reflex?	1	4	2
7. Mention the cause for Lambert-Eaton Syndrome.	1	4	2
8. Define autologous transfusion.	1	4	2
9. What is prothrombin time? Give the normal value.	1	4	2
10. What is gastrocolic reflex?	1	4	2
