

Bachelor's Degree Examination – November 2018

I Semester

**Class : : I UG
Major : Physician Assistant**

**Time :3 hours
Max. Marks: 100**

18BPACO2-Physiology –I

Part-A

10x1 = 10

Circle the correct answer

1. The cardiac output in a resting adult is
a) 4-6 lit/min b) 5-10 lit/min c) 2-3 lit/min d) 9-10 lit/min
2. Pressure inside the chambers can be measured by using a technique called
a) Hemodynamic Monitoring b) Blood pressure c) CVP pressure d) None
3. ----- is measured by preload, after load and contracticity
a) Cardiac output b) Stroke volume c) Minute volume d) Ejection fraction
4. Perfusion is evidenced by
a) Pulse pressure b) Cardiac pressure c) Alveolar pressure d) Minute volume
5. The lung is made up of ---- million alveoli.
a) 200 b) 400 c) 600 d) 800
6. _____ is the elasticity and expandibility of the lungs and thoracic structure.
a) Airway resistance b) Air pressure variance c) Compliance d) Ventilation
7. Breakdown of food into molecular form is _____
a) Digestion b) Absorption c) Elimination d) Propulsion
8. _____ produce mixing waves that moves the intestinal content back and forth in a chewing motion
a) Segmental contraction b) Intestinal peristalsis c) Churning d) Chewing
9. _____ is process of preventing blood loss from intact vessel and of stopping bleeding
a) Hemostasis b) Homeostasis c) Thrombolysis d) Embolism
10. The body is protected from bacterial invasion by
a) Leucocytes b) Macrophages c) Phagocytosis d) Lymphocytes

Part B

5 X 6=30

Answer the following

Answer should not exceed 400 words or two pages

11. a) Homeostasis
(or)
11. b) Blood transfusion
12. a) Functions of muscle
(or)
12. b) Pulmonary circulation
13. a) Mechanism of respiration
(or)
13. b) Functions of kidney
14. a) Cell components and functions
(or)
14. b) Cardiac cycle
15. a) Alveolar ventilation
(or)
15. b) Discuss gastric secretion and its composition

Part C

5 x 12=60

Answer the following

Answer should not exceed 800 words or four pages

16. a) Explain in detail about the spirometer with its uses .
(or)
16. b) Discuss Hemoglobin structure , synthesis and breakdown.
17. a) Heart rate and its regulation
(or)
17. b) Write in detail about the intra pleural and intra pulmonary pressure and their changes during the phases of respiration
18. a) Functions of GI system with suitable diagram .
(or)
18. b) Mechanism of micturition and abnormalities of urine.
19. a) Write in detail about the body fluids.
(or)
19. b) Physiology of muscle contraction- excitation and contraction coupling process.
20. a) Exchange of gases , transport of O₂ , CO₂ in blood.
(or)
20. b) Explain in detail about neuro muscular junction
