

**PARUL UNIVERSITY**  
**PARUL INSTITUTE OF APPLIED SCIENCES**  
**MID SEMESTER INTERNAL EXAMINATION, APRIL 2017**  
**B. Sc. Semester IV**  
**Biochemistry**  
**Paper Code:11103252      Human anatomy & physiology**

**Date: 17 /04/2017**

**Time: 12.30 p.m. to 02.00 p.m.**

**Maximum Marks: 40**

**Instructions:**

- 1. All questions are compulsory and options are given in first and second question only.**
- 2. Numbers to the right of question indicate the marks of respective question.**

<b>Q. 1</b>	Attempt any one question of the following. (i) Explain process of Urine formation in detail (ii) Describe RBC generation and destruction.			<b>(08)</b>
<b>Q. 2</b>	Attempt any three questions of the following. (i) How cardiac cycle is arrested? (ii) Write a note: ECG (iii) Explain conduction of cardiac impulse (iv) Describe structure of hemoglobin. (v) Explain mechanism of breathing			<b>(12)</b>
<b>Q. 3</b>	Do as directed. Attempt all five questions. (i) What is diuretic? Give examples. (ii) GFR= (iii) State functions of RBCs. (iv) What is hemodialysis? (v) Narrate functions of Vasopressin.			<b>(05)</b>
<b>Q. 4</b>	Write correct option in your answer sheet for following 15 multiple choice questions.			<b>(15)</b>
MCQ 1	From following which is not a site of reabsorption?			
	(A)	Glomerulus	(B)	Convule tubule
MCQ 2	(C)	Both A & B	(D)	Loop of Henle
	Physiological condition in which oxygen is low known as _____			
MCQ 3	(A)	Anemia	(B)	Thalassemia
	(C)	Hypoxia	(D)	Hemophilia
MCQ 4	_____ hormone initiates the process of erythropoiesis.			
	(A)	ADH	(B)	Erythropoetin
MCQ 5	(C)	Angiostenin	(D)	Prothrombin
	Which is the natural pacemaker of the body?			
MCQ 6	(A)	Myocardium	(B)	AV node
	(C)	SA node	(D)	RV & LV
MCQ 7	From following which is true in case of heart contraction & relaxation			
	(A)	Systole is contraction	(B)	Diastole is relaxation
	(C)	Both A & B true	(D)	None of these

MCQ 6	Cardiac output=			
	(A)	Stroke volume * heart rate	(B)	Stroke volume / heart rate
	(C)	Stroke volume + heart rate	(D)	stroke volume -heart rate
MCQ 7	The % of blood within ventricle pumped out per beat is known as _____			
	(A)	Cardiac output	(B)	Cardiac reserve
	(C)	Blood flow	(D)	Ejection fraction
MCQ 8	Diaphragm moves downward, contracts & chest cavity expands _____			
	(A)	Exhalation	(B)	Both of these
	(C)	Inhalation	(D)	None of these
MCQ 9	Which hormone increases reabsorption of $\text{Na}^+$ & excretion of $\text{K}^+$ ?			
	(A)	ADH	(B)	Aldosterone
	(C)	Renin	(D)	ANP
MCQ 10	Excretion of urine from body is known as _____			
	(A)	Micturition	(B)	Dialysis
	(C)	Reabsorption	(D)	Secretion
MCQ 11	Creatinine is high in urine in case of _____			
	(A)	Secretion of nutrients	(B)	Ions reabsorption
	(C)	Kidney failure	(D)	Acidosis
MCQ 12	What is not a part of buffer system of acid base balance?			
	(A)	$\text{H}_2\text{CO}_3$	(B)	$\text{Na}_2\text{HPO}_4$
	(C)	$\text{NaHCO}_3$	(D)	Acetic acid
MCQ 13	Increase in the number of RBC is known as _____			
	(A)	Anemia	(B)	Polycythemia
	(C)	Adema	(D)	Hypoxia
MCQ 14	QRS complex in ECG represents _____			
	(A)	Ventricular depolarization	(B)	Repolarization
	(C)	Atrial depolarization	(D)	None of these
MCQ 15	First step of respiration is _____			
	(A)	Excitation	(B)	Pulmonary respiration
	(C)	Transport of gases	(D)	Pulmonary ventilation

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