

MAHARAJA KRISHNA KUMAR SINHJI BHAVNAGAR UNIVERSITY
FIRST BHMS
SUBJECT- PHYSIOLOGY & BIOCHESTRY – 85106
Paper 1

Duration: 3 Hrs.

100 Marks

Marks

Section - I

- | | | |
|-----------|---|----|
| Q-1 | Define blood pressure. Which are the regulatory mechanism of blood pressure? What is role of kidney to maintain blood pressure? | 15 |
| OR | | |
| Q-1 | Write Shorts Notes :-
(a) windkessel's effect
(b) Factors affecting cardiac output.
(c) Long term regulation of arterial blood pressure. | 15 |
| Q-2 | Name blood group system. Explain in detail ABO & Rh blood group system with their incompatibility. | 15 |
| OR | | |
| Q-2 | Write Shorts Notes :-
(a) morphology of granulocyte cells (b) ESR (c) MHC molecules | 15 |
| Q-3 | Write Short Note (Any Four)
(a) Acidosis (b) immunoglobulin
(c) RE system (d) action potential
(e) Osmosis (f) Endoplasmic Reticulum | 20 |

Section - II

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|-----------|---|----|
| Q – 1 | Explain the transport of Oxygen by blood from alveoli to the tissue. | 15 |
| OR | | |
| Q – 1 | Write Shorts Notes :-
(a) Respiratory Centers (b) Pulmonary functions tests (c) compliance | |
| Q – 2 | Define GFR, its normal value, structure of filtration membrane. Describe in detail factors affecting GFR. | 15 |
| OR | | |
| Q – 2 | Write Shorts Notes :-
(a) Na ⁺ reabsorption at PCT (b) JGA (c) counter current exchanger | |
| Q – 3 | Write Short Note (Any Four)
(a) functions of skin (b) Visual receptor cells
(c) organ of corti (d) Role of hypothalamus in maintain body temperature
(e) olfactory pathway (f) Taste pathway | 20 |