

I B.D.S June-2018 (RSI)

QP Code: 11202 & 11203

Subject: General Human Physiology & Biochemistry

Part II

Section A & Section B should be answered in separate answer books

QP Code: 11202

**Section A
General Human Physiology**

(30 Marks)

LONG ESSAY

1x10=10 Marks

1. Define cardiac output. Describe the heterometric regulation of cardiac output.

SHORT ESSAYS

2x5=10 Marks

2. Rh incompatibility.
3. Cephalic phase of gastric secretion.

SHORT ANSWERS

5x2=10 Marks

4. Define renal threshold for glucose. Give its normal value.
5. What is surfactant? Add a note on its significance.
6. List the hormones of anterior pituitary gland.
7. Define spermiogenesis. What is the normal sperm count?
8. Enumerate the functions of cerebrospinal fluid.

QP Code: 11203

**Section B
Biochemistry**

(30 Marks)

LONG ESSAY

1x10=10 Marks

9. Define glycolysis. Write the site of reaction and the steps of aerobic glycolysis. Add a note on its energetics.

($\frac{1}{2} + \frac{1}{2} + 6 + 3$)

SHORT ESSAYS

2x5=10 Marks

10. Secondary structure of proteins.
11. Classify enzymes giving suitable examples.

SHORT ANSWERS

5x2=10 Marks

12. Functions of calcium.
13. Uncouplers of oxidative phosphorylation.
14. Bile salts and their functions.
15. Difference between DNA and RNA.
16. a) Name the ketone bodies.
b) Which is the organ involved in ketogenesis?
