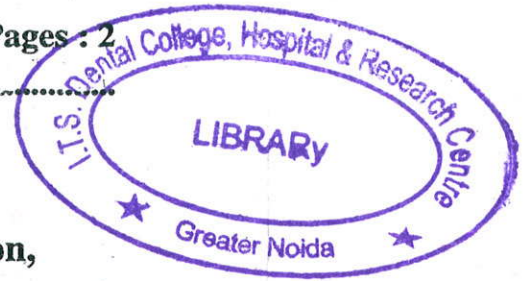


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B.D.S.-I Prof.

Printed Pages : 2
Roll No.



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**B.D.S. Supply. & Main Examination,
November-2019**

**HUMAN PHYSIOLOGY AND
BIOCHEMISTRY**

[BDS-02(N)]

Time : Three Hours] [Maximum Marks : 35+35=70

Part-I

Note : (i) Attempt all questions.

(ii) Illustrate your answers with suitable diagram wherever necessary. Use separate copy for **Part-I** and **Part-II**.

1. Define arterial blood pressure. Give its normal range and describe the regulation of it. 8
2. Draw a well labelled diagram of Juxtaglomerular apparatus (JHA) and describe its functions. 3+5=8
3. Differentiate between the following : 3×3=9
 - (a) Rods and cones
 - (b) Adult and fetal haemoglobin
 - (c) Pituitary dwarf and thyroid dwarf

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4. Write short note on any *two* : $2.5 \times 2 = 5$
(a) Salvia (b) Deafness
(c) Spermatogenesis
5. Define and give its normal values : $2.5 \times 2 = 5$
(a) GFR (b) Cardiac output

Part-II
Bio-Chemistry

6. Describe the Biochemical functions, Dietary requirement, Sources, Absorption, Transport and storage of Iron in the body. Write briefly about excess/deficiency of Iron. $8+2=10$
7. (a) What is Jaundice ? Classify it on the basis of different biochemical parameters. $2+7=9$
(b) Write briefly on the following : $4+4=8$
(i) Definition, biological importance and classification of Lipids
(ii) Forms and functions of RNA
8. Write short notes on each of the following : $4+4=8$
(a) Inborn errors of amino acid metabolism
(b) Basal Metabolic Rate

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