

BDS -1st YEAR SUPPLEMENTRY EXAMINATIONS; SEP./OCT.-2017
SUBJECT: PHYSIOLOGY; PAPER CODE: 0210102

TIME: 03 Hrs.

Max.Marks: 70

Instructions:-

1. Write your Roll No. on the question paper.
2. Candidates should ensure that they have been provided with the correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaints(s) will be entertained thereafter.
3. The Question paper consists of TWO parts: Part-I and Part-II having 35 maximum marks for each. Use separate answer books for Part-I and Part II. Any mistake in this regard, will be responsibility of the examinee and No complaint(s) will be entertained after the examination.
4. Draw Diagram wherever required.

PART-I**Long Essay:**

- Q1.** Enumerate the adrenocortical hormones. Write the function of these hormones. Write the salient features of Cushing syndrome. (1+4+4=9)
- Q2.** Short Essay: (Attempt any four of the following questions): (4x5=20)
- a) Sarcomere
 - b) Functions of hypothalamus
 - c) Pain pathways
 - d) Mechanism of action of oral contraceptive pills
 - e) Muscle spindle and its neural innervation
- Q3.** Brief answers: (Attempt any three of the following questions): (3x2=6)
- a) Night blindness
 - b) Tympanic reflex
 - c) Functions of testosterone
 - d) Colour vision

PART-II**Long Essay:**

- Q4.** Enumerate salivary glands. Write the composition and various functions of saliva. Briefly explain about the regulation of salivary secretion. (2+4+3=9)
- Q5.** Short Essay: (Attempt any four of the following questions): (4x5=20)
- a) Function of white blood cells
 - b) O₂ Hb dissociation curve
 - c) Electrocardiogram
 - d) Renin Angiotensin system
 - e) Chemical regulation of respiration
- Q6.** Brief answer: (Attempt any three of the following questions): (3x2=6)
- a) FEV₁
 - b) Stroke volume
 - c) Cyanosis
 - d) Write four important functions of plasma proteins
