

**ZOOLOGY**  
**COURSE/PAPER: ZOOG-2**  
**Human Physiology**  
**(THEORY)**

**Full Marks 30**

**Time -1½ hrs**

**INSTRUCTIONS TO THE CANDIDATES**

1. Candidate have to write Roll Number, Registration Number, subject, paper code and other details but **have not write the name in any part of the answer script.**
2. Students have to send a **CONFIRMATION MESSAGE** either in group What's App immediately after receiving the question paper.
3. A4 page size with proper margin with continuous page number is to be followed.
4. The **FRONT PAGE** of the University Answer Scripts to be used for basic information related to the examinations.
5. No candidates will distribute or forward the question paper(s) by any means of communication, once posted in the What's App group by the respective teacher(s).
6. The student should upload/post the answer script to the concerned teacher's within half an hour after the allotted time for examination has elapsed.
7. After writing, the students have to prepare a single PDF file of the answer script and save it in the name of **(Subject)\_(Paper Code)\_(Roll Number)\_(Date of Examination)**. Students have to **POST** the answer script primarily by e-mail as given during notification.
8. If any case e-mail is not working then only What's App can be used to send the answer copy. If What's App is opted, the answer copy to be send **INDIVIDUALLY** to the concerned faculty members (not in the **GROUP** What's App).
9. After posting the **ANSWER** script in **SINGLE PDF** format, students had to restore the hard copy of the **ANSWER SCRIPT** and **DIGITAL DOCUMENTS VERY CAREFULLY** without disclosing to anyone. If required the same will be asked.

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1. Answer **any five** **1x 5=5**
- a. What is hypothyroidism? State two symptoms
  - b. State the composition of bile.
  - c. Name two hormones from posterior pituitary with one function for each.
  - d. What is the function of neurotransmitter?
  - e. What type of band formation does not observed during muscle contraction?
  - f. Define the term tidal volume?

2. Answer any five

**3 x 5= 15**

- a. Briefly describe the hormones secreted from the anterior pituitary and their functions.
- b. Name the hormones released from adrenal cortex and one function of each.
- c. Briefly state the digestion of proteins in human intestine?
- d. Mention the name and function of the factors that affect the oxygen-hemoglobin dissociation curve?
- e. How action potential formed during nerve impulse propagation?
- f. Briefly describe the structure of skeletal muscle?

3. Answer any one

**10x 1= 10**

- a. Describe the digestion of carbohydrates in human gastrointestinal tract.
- b. Explain the “Sliding Filament Theory” of muscle contraction?