

M.Sc. Zoology Semester – I Examination
 October – November 2016 CODE: 20470 Paper MSc Zoo 03
 [Animal Physiology]

Time: 2.5 Hours

Total Marks – 70

Instruction: 1) Attempt all questions.
 2) Figures on right indicate the marks.
 3) Draw labelled diagram wherever required.

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| Que. 1 | Describe: a. Respiratory pigments. | 07 |
| | b. Course of circulation of blood in human heart. | 07 |
| | OR | |
| Que. 1 | Write notes: a. Physiological functions of blood. | 07 |
| | b. Exchange of respiratory gases. | 07 |
| Que. 2 | Describe: a. Role of enzymes in protein digestion. | 07 |
| | b. Osmoregulation in mammals. | 07 |
| | OR | |
| Que. 2 | Describe: a. Role of enzymes in carbohydrates digestion. | 07 |
| | b. Lipid digestion. | 07 |
| Que. 3 | Write notes: a. Hormones of anterior pituitary gland. | 07 |
| | b. Addison's disease. | 07 |
| | OR | |
| Que. 3 | Write notes: a. Adrenal cortex hormone. | 07 |
| | b. Negative feedback regulation of insulin and glucagon. | 07 |
| Que. 4 | Write notes: a. Classification of animals based on thermo regulation. | 07 |
| | b. Hibernation. | 07 |
| | OR | |
| Que. 4 | Discuss the physiochemical changes occur during muscle contraction. | 14 |
| Que. 5 | Explain: a. Role of internal ear in balancing. | 07 |
| | b. Photoreceptors. | 07 |
| | OR | |
| Que. 5 | Describe structure of eye and discuss the function of different part of the eye. | 07 |