

**Govt. M.H. College of Home Science & Science for women, Autonomous
Jabalpur M.P.**

Code No. OBS/401/Z/2020

M.Sc. IV Semester Main & ATKT Examination September 2020

Subject : Zoology

Paper I : Animal Behaviour and Neurophysiology

Maximum Marks : 35

**Note : Attempt all questions in about 250 to 300 words.
All questions carry equal marks.**

- Q.1** What do you understand from the term “reflexes”. How do they differ from complex behaviour.
- Q.2** How do hormones affect emotions and behaviour. Explain with examples.
- Q.3** Write detailed account on circadian rhythms.
- Q.4** What is aggregation? Write an account on “herding in mammals” as their social behaviour.
- Q.5** Give brief account on Bioluminescence.



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Paper II : Gamete Biology, Development and Differentiation in Vertebrates

Maximum Marks : 35

**Note : Attempt all questions in about 250 to 300 words.
All questions carry equal marks.**

- Q.1 Explain the biochemistry of fertilization.**
- Q.2 Describe the biology of sex determination in mammals.**
- Q.3 Explain the physiology and Endocrinology of placenta.**
- Q.4 Give detailed account of Melanogenesis.**
- Q.5 Describe in detail about Blood cell formation.**

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Paper III : Ichthyology (Fish) Structure & Function

Maximum Marks : 35

**Note : Attempt all questions in about 250 to 300 words.
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- Q.1 Describe general characters of Pisces and classify it up to sub class giving suitable characters and examples.**
- Q.2 What is weberian ossicles? Describe the structure and mechanism of weberian ossicles.**
- Q.3 Give a detailed account of Osmoregulation in fresh water, Marine and migratory fishes.**
- Q.4 Describe Hill stream conditions and Adaptations in fishes.**
- Q.5 Write an essay on parental care in fishes.**



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Paper IV : Pisci culture & Economic Importance of Fishes

Maximum Marks : 35

**Note : Attempt all questions in about 250 to 300 words.
All questions carry equal marks.**

- Q.1 Explain the process of hypophysation in fishes.**
- Q.2 Describe the various types of Ponds required for fish culture farms.**
- Q.3 Write a detailed note on composite fish culture.**
- Q.4 Describe sewage fed fisheries in India.**
- Q.5 Describe economic importance & by products of fishes.**

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