

**Kishore Bharati Bhagini Nivedita College (Co-Ed.)**

(Affiliated to the University of Calcutta)

**2020**

**ZOOLOGY – HONOURS**

(1+1+1 2009 Regulations)

**Third Paper (Unit-I)**

**Full Marks : 50**

**Time : 2 Hrs.**

*The figures in the margin indicates full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

Send PDF of the Answer Script to **kbbnczoology@gmail.com**

Answer **question no. 1** and **any three** questions from the rest.

1. Write short notes on **any four** from the following: 5×4
  - a) Allopatric speciation
  - b) Fixed action pattern (FAP)
  - c) Cladistic classification
  - d) Oparin and Haldane's theory
  - e) Adaptive features of Horse
  - f) Oriental realm
  - g) Population bottleneck
  - h) Parent-offspring conflict
  
2. Discuss the significance of typification in taxonomic studies. Write the differences between alpha and beta taxonomy. 5+5
  
3. Write a note on biological species concept. Mention various types of reproductive isolation. 5+5
  
4. Explain Hardy-Weinberg equilibrium in relation to natural selection. State the reptilian features of *Archaeopteryx*. 5+5
  
5. Explain altruism and reciprocal altruism. Write the differences between instinctive and learned behaviour. 5+5

6. Write brief note on decisive factors of bird migration. 10
7. Write down the names, subdivisions, geographical boundaries, climate and other characteristic fauna of the realms to which the following animals belong: 5+5
- A. Humming bird
  - B. Penguin

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