

3.4.2019

**IVth Sem Zoology Hons.**  
**Dept. of Zoology, Mugberia Gangadhar Mahavidyalaya**  
**Class test on brain, exoskeletal structures, complement system and vaccine F.M.- 30, Time 1hr.**

**Short Questions:**

**(5X2) = 10**

1. Differentiate down feather and contour feather.
2. What do you mean by stratum germinativum?
3. What is the functional importance of pons?
4. Name the IXth and Xth cranial nerves found in mammals.
5. What is meant by DNA vaccine?
6. Differentiate live attenuated vaccine and heat killed vaccine.
7. What is the function of velvet?

**Broad questions:**

**(10X2= 20)**

1. A) Briefly narrate the structure of hair with proper diagram. B) What is filoplume? C) What is the difference between horn and antler? D) Narrate the character of baleen plate with its function.  
4+2+2+2
2. A) Write down the structure of midbrain of mammals. B) Write the role of medulla oblongata. C) What do you mean by classical pathway of complement system?  
4+2+4