

KHYBER PAKHTUNKHWA, PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR THE POSTS OF PROVINCIAL MANAGEMENT SERVICES (BPS-17)

2013

ZOOLOGY, PAPER-II

TIME ALLOWED: 03 HOURS

MAX:MARKS: 100

Note:- Attempt any Five questions. All questions carry equal marks.

- Q.1- (a) Explain the Role of DNA and RNA in protein synthesis. Discuss the process of translation in the Cell. (10)
- (b) What is Cell Cycle? Explain the Cell cycle and discuss the various events of meiosis. (10)
- Q.2- (a) Differentiate between breathing and Respiration. Explains the process of Transportation of O_2 in man. (10)
- (b) Give an account the mode of nutrition in animals. (10)
- Q.3- (a) What is excretion? Discuss the various adaptation in the excretory system in animals in accordance to its environment. (10)
- (b) Differentiate between various types of neuron and discuss the resting membrane potential and active membrane potential. (10)
- Q.4- Explain the Nervous system of Man? (20)
- Q.5- (a) What are multiple allele? State with example. (5)
- (b) Describe the Linkage and crossing over with the help of suitable examples. (10)
- (c) Discuss the sex determination in animals. (5)
- Q.6- (a) Explain the Bio-chemical basis for the origin of life on the Earth. (15)
- (b) Give an account the species concept. (5)
- Q.7- What is Natural Selection? Explain the Modern concept of Natural Selection. (20)
- Q.8- Explain the Water Pollution and Air Pollution. What are their effects on life? (20)