

UNIVERSITY OF NORTH BENGAL

B.Sc 2nd semester (programme) practical examination- 2021

DSC 2 – ZOOLOGY PRACTICAL

COMPARATIVE ANATOMY AND DEVELOPMENTAL BIOLOGY OF VERTEBRATES

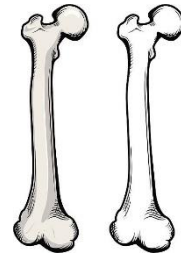
TIME : 2 HOURS

FULL MARKS : 20

1. Identify with reasons the following disarticulated skeleton of pigeon. 5x2 = 10



A

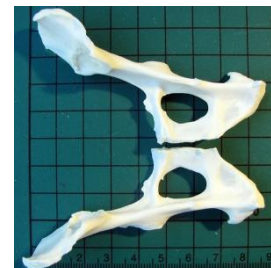


B

2. Identify with reasons the following disarticulated skeleton of guinea pig. 5x2 = 10



A



B

UNIVERSITY OF NORTH BENGAL

B.Sc 4th semester (programme) practical examination - 2021

DSC 4 ZOOLOGY PRACTICAL

GENETICS AND EVOLUTIONARY BIOLOGY

TIME : 2 HOURS

FULL MARKS : 20

1. The following are the information obtained concerning number of surveys (N=50) on genetic abnormalities conducted by Research Fellows and Scientists in cities and villages.
10x1=10

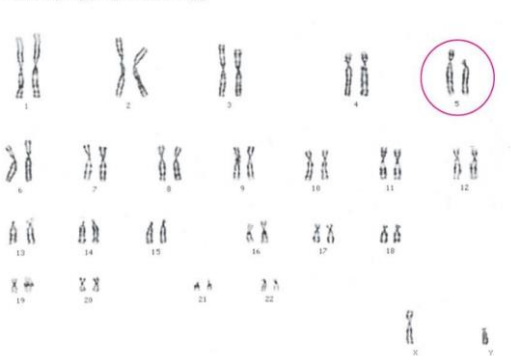
	Places		Total
	City(1)	Village(2)	
Research Fellows (A)	17	18	35
Scientists (B)	3	12	15
Total	20	30	50

Compute chi- square test for the above given data. Also decide that is it accepted or rejected by Null Hypothesis?

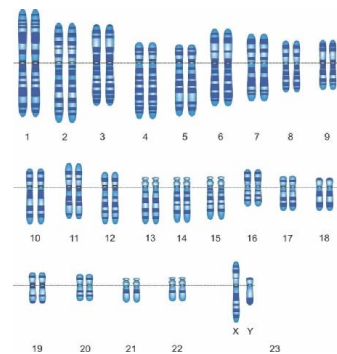
Critical value : 3.841 at 0.05 level level of significance

2. Identify the following two karyotype which one is normal(Male/Female) and which one is diseased karyotype ?
5X2= 10

a) Karyotype (G banding)



A



B

UNIVERSITY OF NORTH BENGAL

B.Sc 6th semester (programme) practical examination - 2021

DSE 2 – ZOOLOGY PRACTICAL

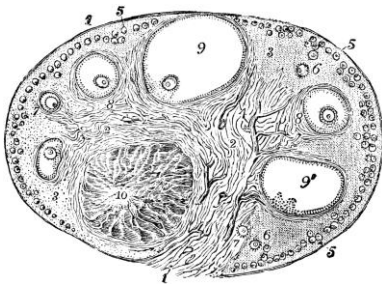
REPRODUCTIVE BIOLOGY

TIME : 2 HOURS

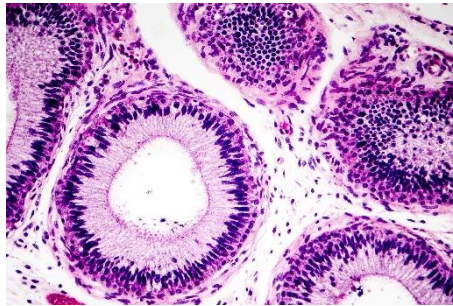
FULL MARKS - 20

1. Identify with reasons following three histological section.

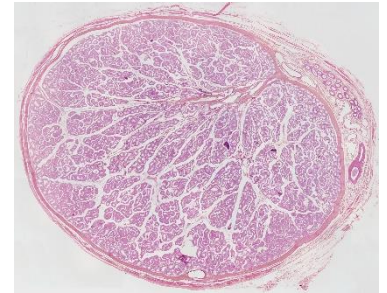
5x3 = 15



A



B



C

2. Write the principle and procedure for examination of vaginal smear of live rats. 5x1 = 5