

अनुक्रमांक (अंकों में)

अनुक्रमांक (शब्दों में)

Astha Yadav

परीक्षार्थी का पूरा नाम

कक्ष निरीक्षक का नाम

परीक्षार्थी द्वारा सम्पूर्ण विवरण भरने के लिए मने है।

हस्ताक्षर



R

2018-

भाग-2

M.Sc. Internal

चौधरी चरण सिंह विश्वविद्यालय, मेरठ
Ch. Charan Singh University, Meerut

निम्नलिखित विवरण परीक्षार्थी द्वारा स्वयं भरा जाए (To be filled by the Examinee)

परीक्षा का नाम M.Sc. वर्ष 20 19 भाग/सेमेस्टर 2nd
(Name of Exam) (Year 20.....) (Part / Semester)
विषय Zoology प्रश्न-पत्र/पाठ्यक्रम Biostatistics & Bio. पेपर कोड नं.
(Subject) (Paper / Course) (Paper Code No.)
परीक्षा का दिन 1st Wednesday दिनांक 01/05/19
(Day of Examination) (Date)

प्राप्तांक एवं पूर्णांक परीक्षकों द्वारा भरे जायें

पूर्णांक (Max. Marks)

प्रश्नों की क्रम संख्या	a/I	b/II	c/III	d/IV	e/V	f/VI	g/VII	h/VIII	i/IX	j/X	योग
1	1	2	1	1	1						6
2	2	1									3
3	3	2									5
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

प्राप्तांक

(शब्दों में)	अंकों में
--------------	-----------

जाँचकर्ता के हस्ताक्षर एवं तिथि

परीक्षक के हस्ताक्षर एवं तिथि



चौधरी चरण सिंह विश्वविद्यालय, मेरठ

R

Date Stamp to be affixed here

मार्गदर्शक

(परीक्षार्थी द्वारा भरा जाए)

परीक्षा का नाम Misc भाग/सेमेस्टर
विषय Zoology
प्रश्न पत्र Biostatistics & Bio. दिनांक 01/05/19
परीक्षार्थी का अनुक्रमांक (Roll Number) उत्तर-पुस्तिका क्रमांक

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

KM-I-01-

कालेज कोड

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

(परीक्षार्थी की श्रेणी)

- संस्थागत
- व्यक्तिगत
- बैक पेपर
- अंक सुधार
- भूतपूर्व
- एकल विषय

नामांकन संख्या (Enrollment Number)

M	1	4	0	8	5	7	0	6											
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9

पेपर कोड

H-2062

परीक्षार्थी का पूरा नाम

Astha Yadav

कक्ष निरीक्षक का नाम

Ajmi

SECTION-A

Ans-① Hypothesis :-

• Hypothesis is defined as the statement of the "CLAIM" or "TRUTH" of the parameters.

• * Hypothesis is of two types :-

(1) Null Hypothesis

(2) Alternative Hypothesis ✓

• Null hypothesis is denoted by

H_0 ✓

o) Alternative Hypothesis is denoted
by H_1 - \cup
 $0 - x - 0$

Ans - ⑤

Two genetic disorders are:-

① Cystic fibrosis. ✓

② Down Syndrome

Chromosomal
disorders

Ans - ⑤

DDBJ

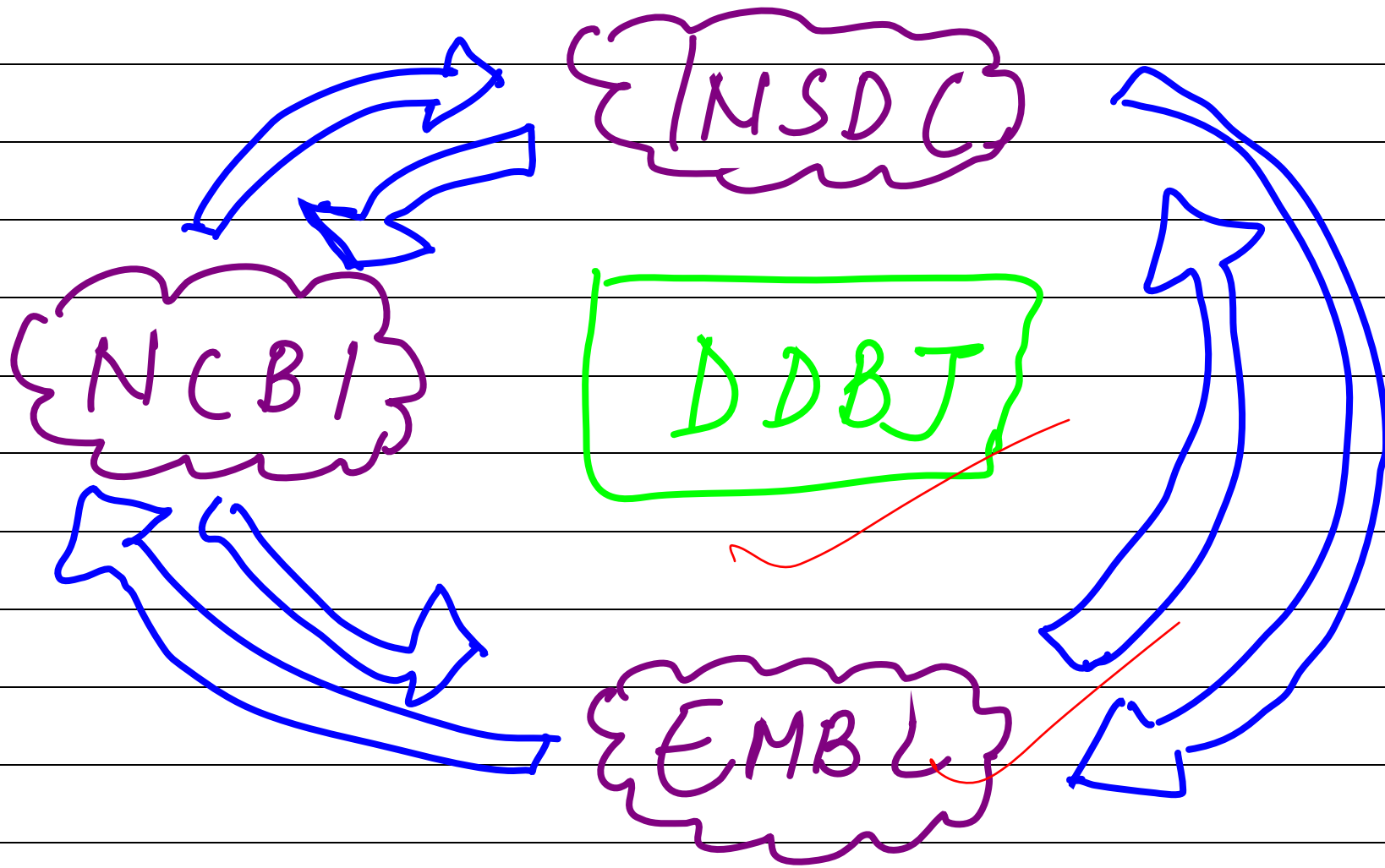
①) DDBJ stands for DNA Data Bank
Of Japan.

②) It is situated at the Shizuoka
Prefecture of Japan.

⇒ DDBJ is the biological collection
of DNA data of all
organism.

⇒ DDBJ collects data from all
countries.

⇒ But, it mainly receive data
from Japanese researchers.



" Diagrammatic representation of
DDBJ receives Data from
EMBL, INSDC, NCBI."

Section - B.

Ans - (4)

Components of Computer.

Content:-

1. Computer ✓
2. History ✓
3. Components of Computer
 - 3.1 Monitor ✓
 - 3.2 keyboard ✓
 - 3.3 Mouse ✓
 - 3.4 CPU ✓
4. Input devices → R.B) m
5. Output devices → m m m m
6. Processing device
7. Storage devices
8. Computer Networking.

Prints?

(1) COMPUTER :-

- o) Computer is an electronic machine which provide us all type of information ✓
- o) ✓ Computer is present in school, colleges, offices etc ✓
- o) It makes the work very easy.

* HISTORY :-

* Charles Babbage discover the computer. ✓

* Engelbart discovered mouse, It was made up of wood.

* COMPONENTS OF COMPUTER:-

(1) Input devices.

⇒ Input devices are those, which input the information on the Computer ~~Screen~~.

⇒ It shows the ~~results~~ on screen.

eg → Mouse
Keyboard

* Keyboard :- It is a input device

→ There are many types of keys present in keyboard i.e.

- 1) Alphabet key.
- 2) Arrow key
- 3) Number key
- 4) Spacebar key.
- 5) Enter key.
- 6) Alt key, etc

Q) Output devices

⇒ output devices are

- 1) Monitor ✓
- 2) Printer ✓

1) Monitor :- Monitor is like the TV screen.

o) It is also called VDU.
visual display unit.

o) It shows the work what we have done in computer.

~~software~~

✓

* PROCESSING DEVICE :-

(1) CPU :- CPU stands for
Central processing unit.

⇒ CPU is the brain of Computer.

⇒ CPU is the main part of the
Computer.

* COMPUTER NETWORKING

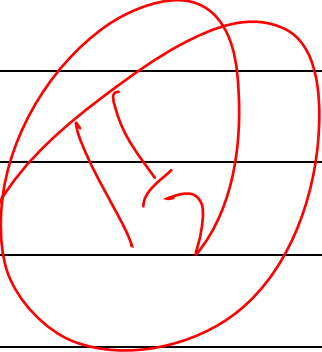
* Computer can connect from many computers.

Ans-6 χ^2 test^o - χ^2 test is based on the single data

Character	observed Value (O)	Expected Value (E)	$\chi^2 = \frac{\sum (O-E)^2}{E}$
Red-Tall	850	900	
Red-Dwarf	250	300	
White-Tall	350	300	
White-Dwarf	150	100	

1600 ✓ 1600 ✓

$$\chi^2 = \sum \frac{(O-E)^2}{E}$$

$\chi^2 =$ 

No calculation
although formula
is correct

If T.V > expected value, so hypothesis accepted.

If T.V < expected value hypothesis rejected.

Section-D.

Ans-9

C.I	f	mid value x	fx
0-10 ✓	10 ✓	5	50
10-20 ✓	15 ✓	15	225
20-30 ✓	5 ✓	25	125
30-40 ✓	8 ✓	35	280
40-50 ✓	12 ✓	45	540
50-60 ✓	18 ✓	55	990
60-70 ✓	21 ✓	65	1365
70-80 ✓	1 ✓	75	75
$N=90$		$\Sigma fx=3450$	

this is
in Q. paper
in Q. paper

$$\text{Mean } \bar{x} = \frac{\sum fx}{N}$$

$$\Rightarrow \bar{x} = \frac{3450}{90}$$

$$\Rightarrow \bar{x} = 38.3$$

Mean = 38.3

part not involved
~~11~~
 value of

Mode

C.I	f
0-10	10
10-20	15
20-30	5
30-40	8
40-50	12
50-60	18
60-70	21
70-80	11
.	

modal
class.

f_0
 f_1
 f_2

$$M_0 = l_1 + \frac{f_1 - f_0}{2f_1 - f_0 - f_2} \times i$$

$$2 \times 21 - 18 - 11$$

$$\Rightarrow M_0 = 60 + \frac{21 - 18}{2 \times (21 - 11)} \times 10$$

is wrong

$$M_0 =$$

~~_____~~

Short of time

Median

$$= (n+1) + \left(\frac{D+1}{2}\right)^2$$

Q37 $\frac{(m+n)}{2} + \frac{(n+x)}{2}$

But in this n.F. are available too formula suggested.

Aes-4 $K+P \Rightarrow$ stand for.

Hyper Text Transfer Protocol

Q3 Gene Bank

⇒ Gene Bank are a type of
bio repository, which preserve
genetic material. ✓

eg ⇒ Plants (in invitro freezing)

Ans-10

Sequence Database

① It is a type of biological database that is composed of a large collection of digital nucleic acid sequence, protein sequence etc

② The uniprot database is an example of protein database.

③ It contain as per 2013
40 million sequences.

④ Sequences are published in
paper form.

USES of

②

①

① used in protein sequence.

