

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

Time: 2 hours

Roll no: 200341000005

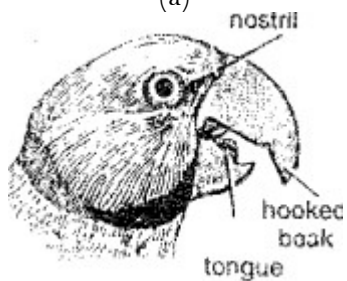
1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] nad [f]) given below with suitable reasons: 3x2=6



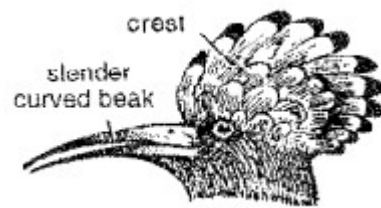
(a)



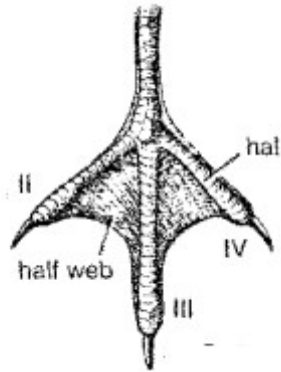
(b)



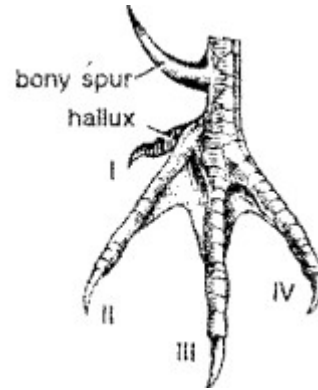
(c)



(d)



(e)



(f)

2. In a certain population people are of following height (cm). Determine Mean, Mode and Median height of that population. 6

12, 18, 25, 45, 57, 68, 48, 47, 43, 53, 42, 64, 77, 73, 82, 86, 95, 99, 105, 148, 128, 156, 187, 28, 68, 75, 76, 146, 157, 159, 174, 94, 32, 14, 6.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

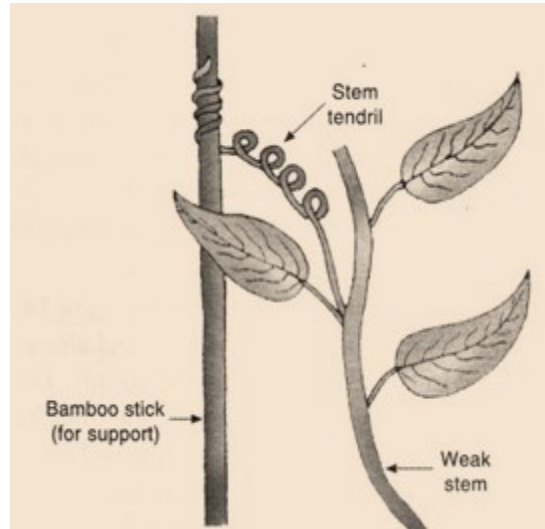
Time: 2 hours

Roll no: 200341000017

1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] nad [f]) given below with suitable reasons: $3 \times 2 = 6$



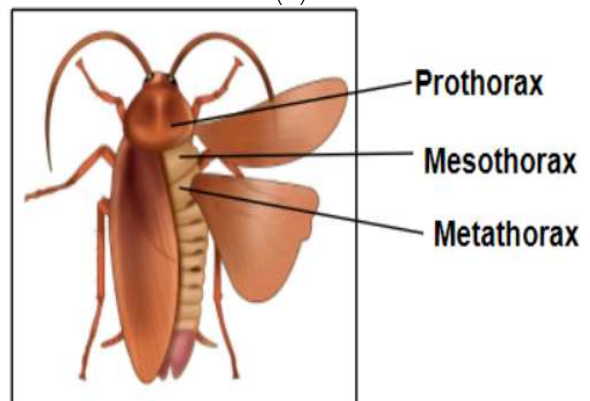
(a)



(b)



(c)



(d)



(e)



(f)

2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

12, 18, 25, 45, 57, 68, 48, 68, 59, 14, 15, 27, 33, 73, 64, 56, 47, 48, 75, 77, 64, 69, 67, 78, 85, 49, 46, 44, 75.

4. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

Time: 2 hours

Roll no: 200341000003

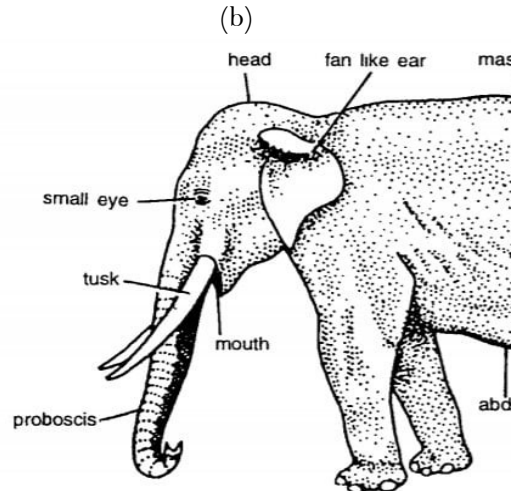
1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] nad [f]) given below with suitable reasons: 3x2=6



(a)



(b)



(c)



(e)

(d)



(f)

2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

12, 18, 25, 45, 57, 68, 48, 68, 59, 14, 15, 27, 33, 75, 76, 146, 157, 159, 174, 94, 32, 14, 6, 78, 85, 49, 46, 44, 75.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

Time: 2 hours

Roll no: 200341000019

- 1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] nad [f]) given below with suitable reasons: 3x2=6**



(a)



(b)



(c)

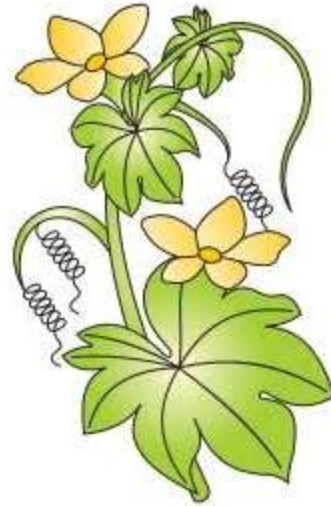


(d)



Thorns of *Bougainvillea*

(e)



Cucurbita

(f)

2. In a certain population people are of following height (cm). Determine Mean, Mode and Median height of that population? 6

12, 75, 76, 146, 157, 159, 174, 94, 32, 14, 6, 33, 73, 64, 56, 47, 48, 75, 77, 64, 69, 67, 78, 85, 49, 46, 44, 75.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

...

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

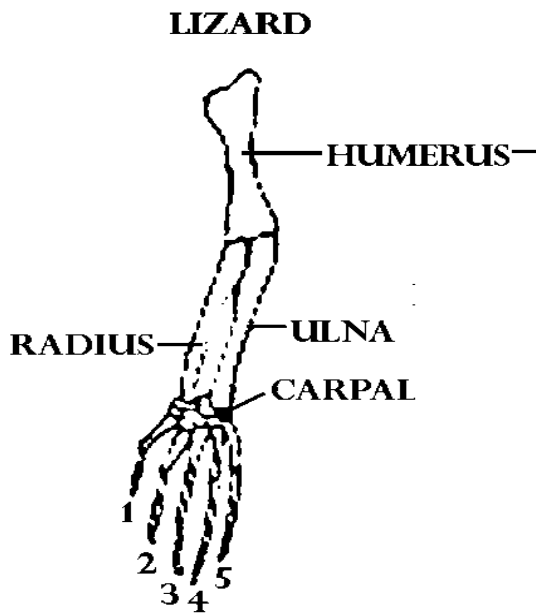
Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

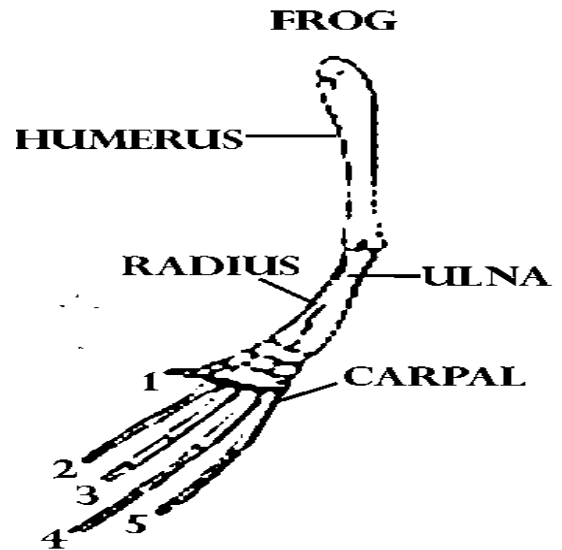
Time: 2 hours

Roll no: 200341000022

1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] nad [f]) given below with suitable reasons: $3 \times 2 = 6$



(a)



(b)



(c)



(d)



(e)



(f)

2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

12, 75, 76, 146, 157, 159, 174, 94, 32, 14, 6, 33, 73, 64, 56, 47, 48, 75, 77, 64, 69, 67, 78, 85, 34, 25, 55, 79.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

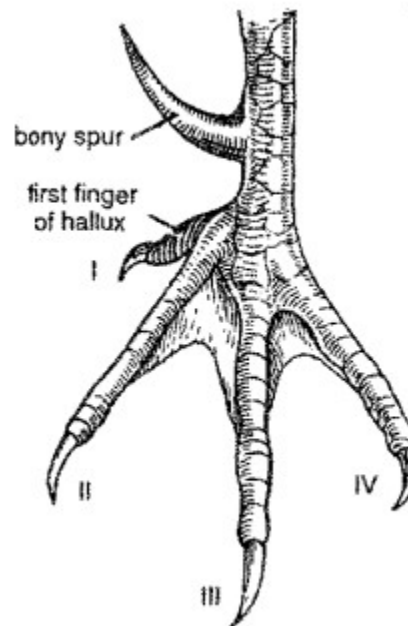
Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

Time: 2 hours

Roll no: 200341000025

- 1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] and [f]) given below with suitable reasons: $3 \times 2 = 6$**



(a) [Only arrow mark will consider]

(b)



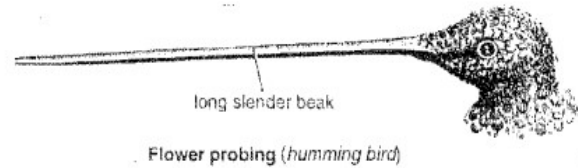
(c)



(d)



(e)



(f)

2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

42, 85, 76, 196, 167, 168, 166, 84, 42, 14, 19, 6, 33, 63, 74, 56, 47, 48, 75, 87, 154, 99, 67, 78, 87, 34, 25, 55, 79, 92.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

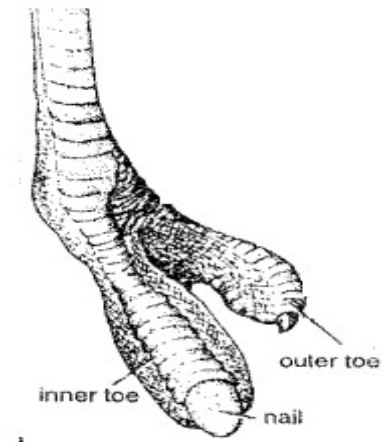
Time: 2 hours

Roll no: 200341000024

- 1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] nad [f]) given below with suitable reasons: $3 \times 2 = 6$**



(a)



(b)



(c)



(d)



Tearing &
piercing
(owl)

(e)



Water & mud straining
(flamingo)

(f)

2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

42, 85, 76, 196, 167, 168, 166, 84, 42, 14, 19, 6, 33, 63, 74, 56, 47, 48, 75, 87, 154, 99, 67, 78, 87, 34, 25, 55, 79, 92.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

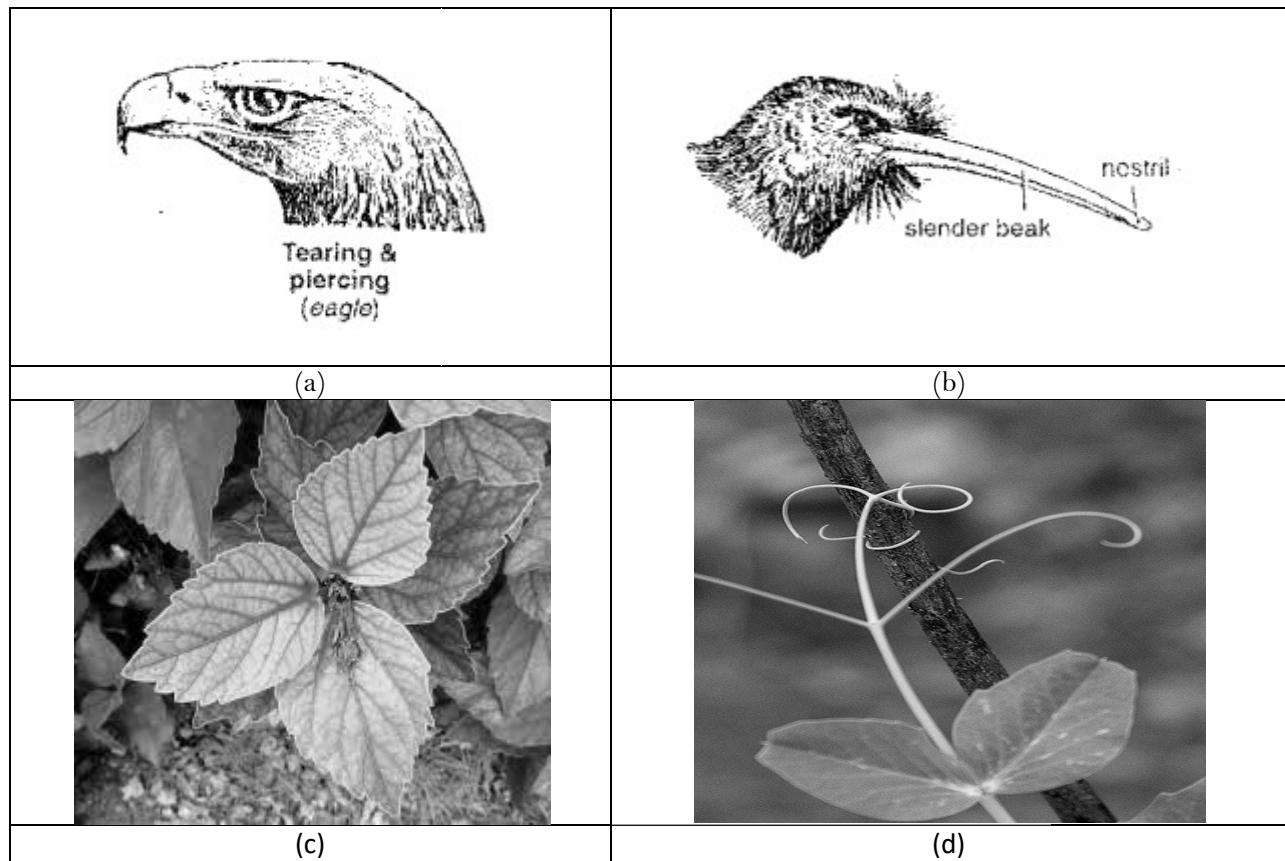
Paper: CC-14 (Evolutionary Biology)

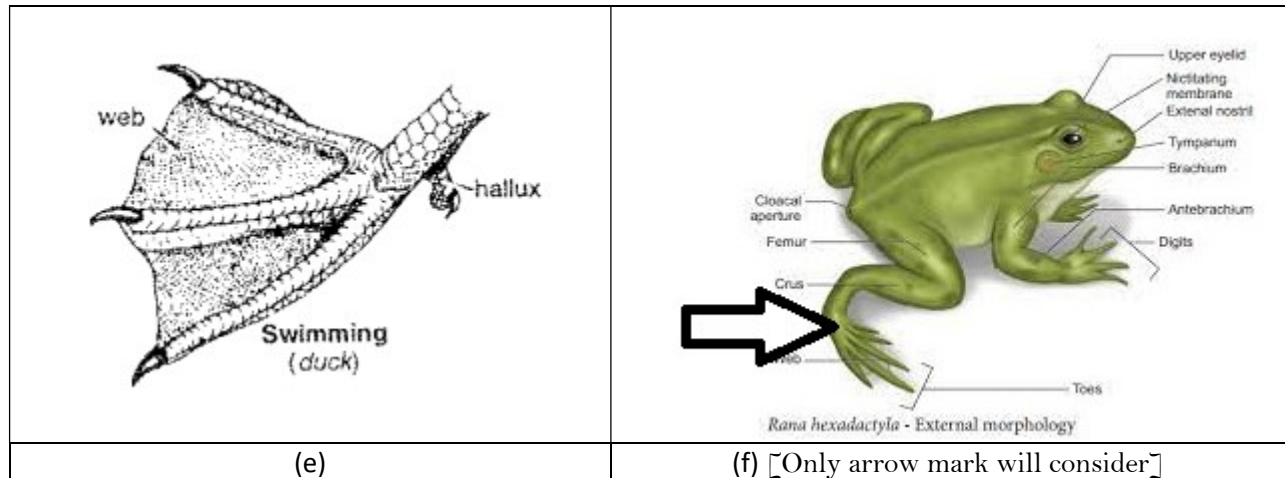
Full Marks: 20

Time: 2 hours

Roll no: 200341000029

- 1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] nad [f]) given below with suitable reasons: 3x2=6**





2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

42, 85, 76, 196, 167, 168, 166, 84, 42, 14, 19, 6, 33, 63, 74, 56, 47, 48, 75, 87, 154, 99, 67, 78, 87, 34, 25, 55, 79, 92.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

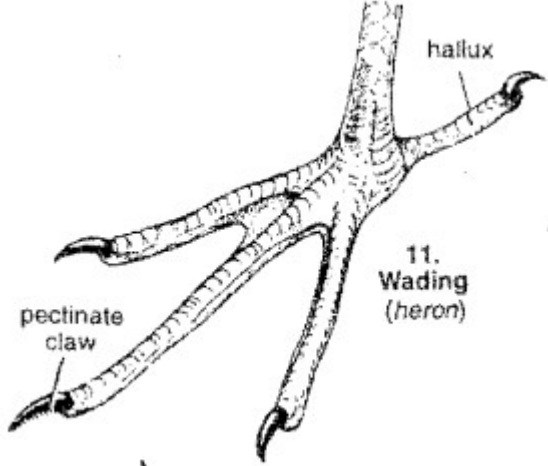



Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

Time: 2 hours

Roll no: 200341000075

1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] and [f]) given below with suitable reasons: 3x2=6

 <p>11. Wading (heron)</p>	 <p>Climbing & clinging (parrot)</p>
<p>(a)</p>	<p>(b)</p>
 <p>Insect eating (robin)</p>	 <p>Tearing & piercing (eagle)</p>
<p>(c)</p>	<p>(d)</p>



2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

42, 85, 76, 196, 157, 168, 172, 84, 42, 34, 19, 6, 33, 53, 64, 66, 47, 48, 72, 88, 176, 189, 87, 78, 73, 34, 25, 55, 74, 92.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

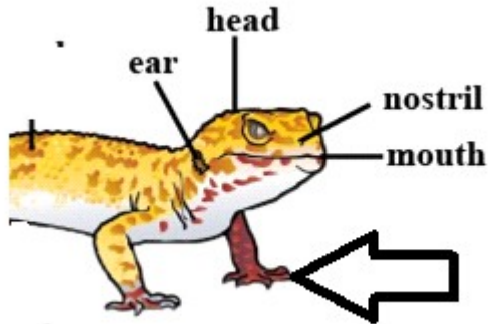
Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

Time: 2 hours

Roll no: 200341000073

1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] and [f]) given below with suitable reasons: $3 \times 2 = 6$

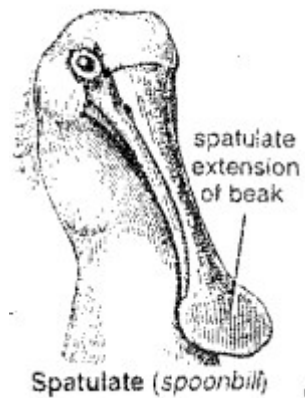


(a) [Only arrow mark will consider]

(b)



(c)



(d)



(e)



(f)

2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

42, 85, 76, 196, 167, 168, 166, 84, 42, 34, 19, 6, 33, 53, 64, 66, 47, 48, 72, 88, 174, 199, 87, 78, 77, 34, 25, 55, 79, 92.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

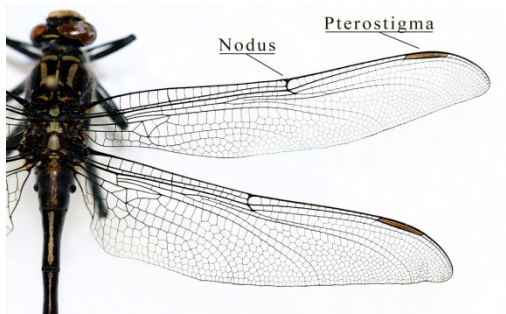
Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

Time: 2 hours

Roll no: 200341000056

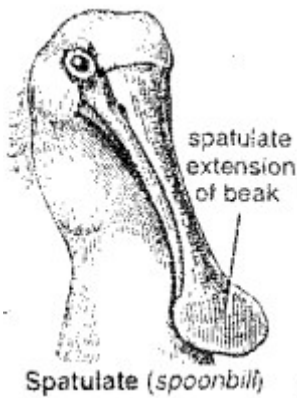
- 1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] and [f]) given below with suitable reasons: $3 \times 2 = 6$**



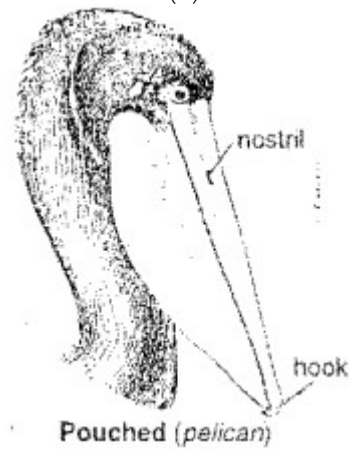
(a)



(b)



(c)



(d)



(e)



(f)

2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

42, 85, 76, 196, 167, 168, 166, 84, 42, 34, 19, 6, 33, 53, 64, 66, 47, 48, 72, 88, 174, 199, 87, 78, 77, 34, 25, 55, 79, 92.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

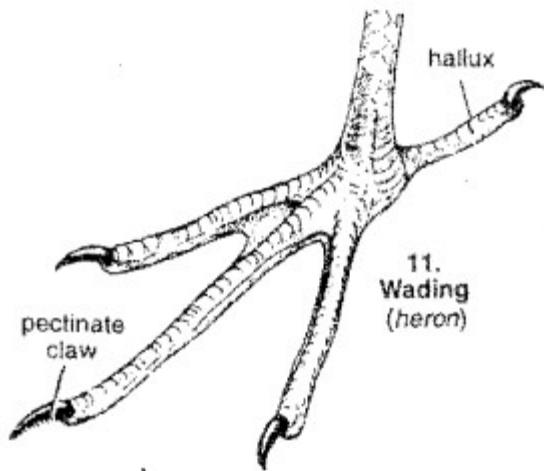
Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

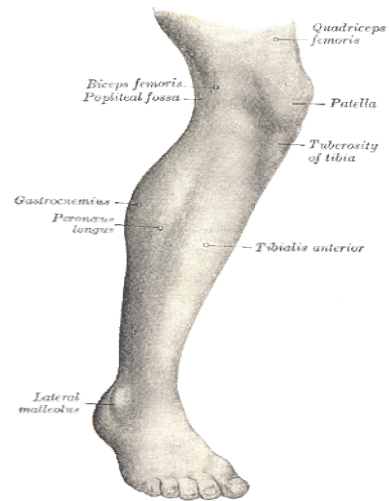
Time: 2 hours

Roll no: 200341000060

1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] and [f]) given below with suitable reasons: $3 \times 2 = 6$



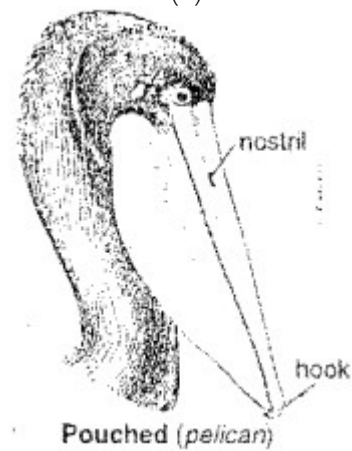
(a)



(b)



(c)



(d)



(e)



(f)

2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

42, 85, 76, 196, 167, 168, 166, 84, 42, 34, 19, 6, 33, 53, 64, 66, 47, 48, 72, 88, 174, 199, 87, 78, 77, 34, 25, 55, 79, 92.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI



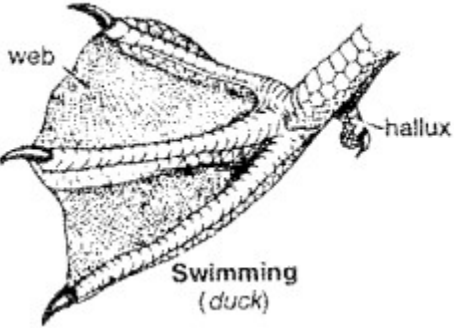
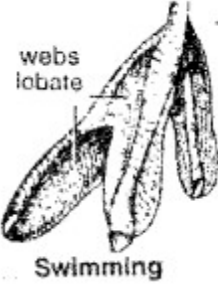
Paper: CC-14 (Evolutionary Biology)

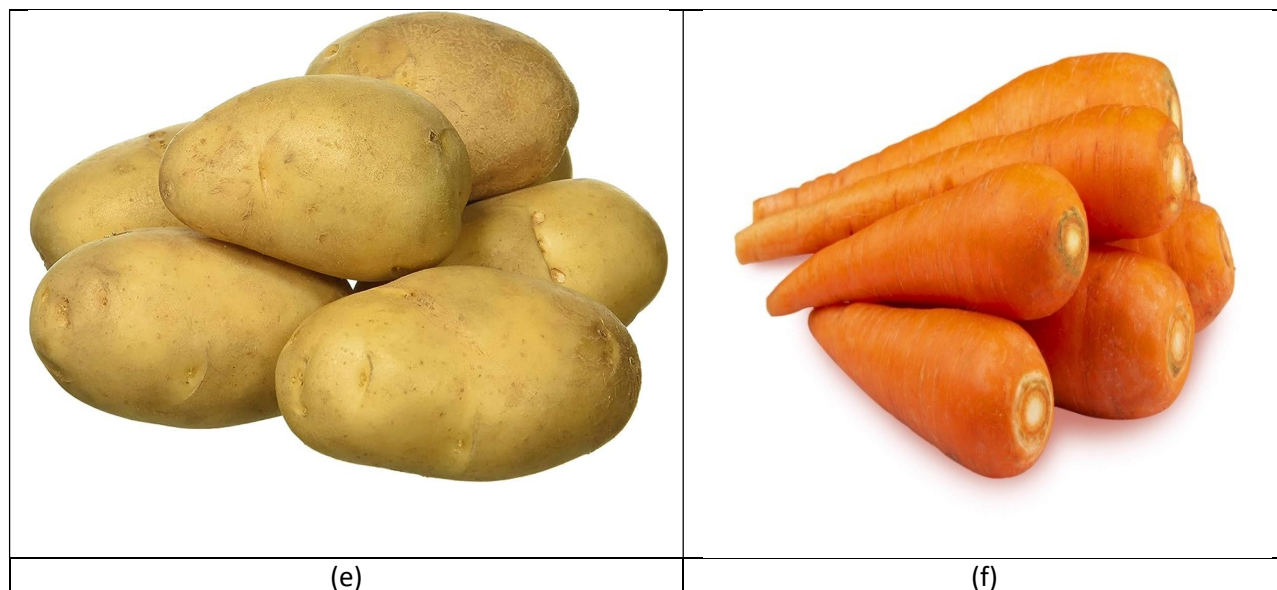
Full Marks: 20

Time: 2 hours

Roll no: 200341000061

- 1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] nad [f]) given below with suitable reasons: $3 \times 2 = 6$**

	
(a)	(b)
	
(c)	(d)



2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

42, 85, 76, 196, 167, 168, 166, 84, 42, 34, 19, 6, 33, 53, 64, 66, 47, 48, 72, 88, 174, 199, 87, 78, 77, 34, 25, 55, 79, 92.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

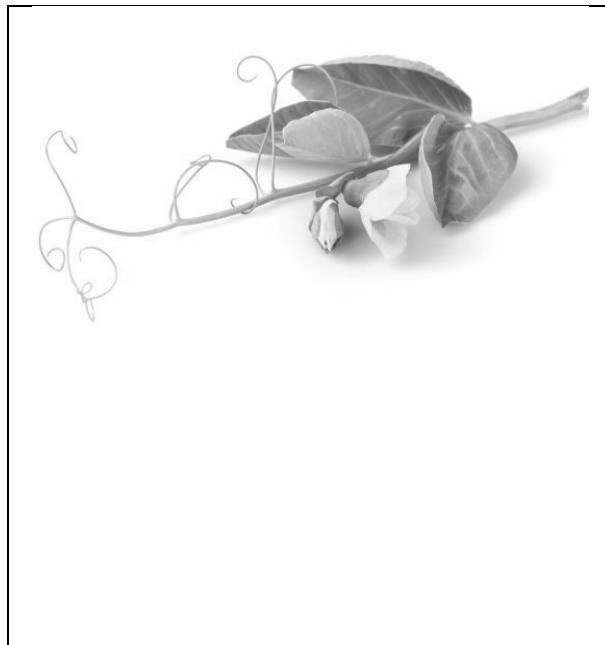
Paper: CC-14 (Evolutionary Biology)

Full Marks: 20

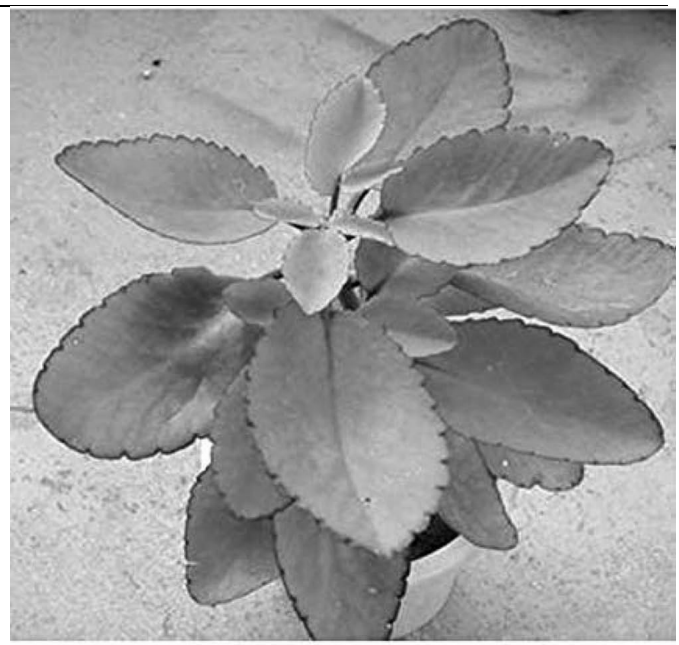
Time: 2 hours

Roll no: 200341000047

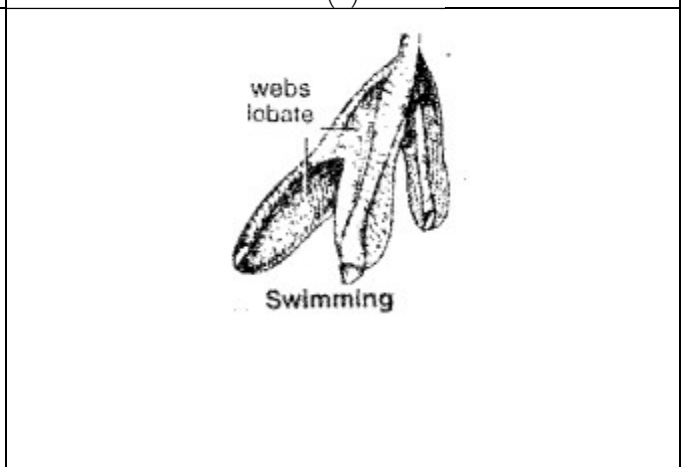
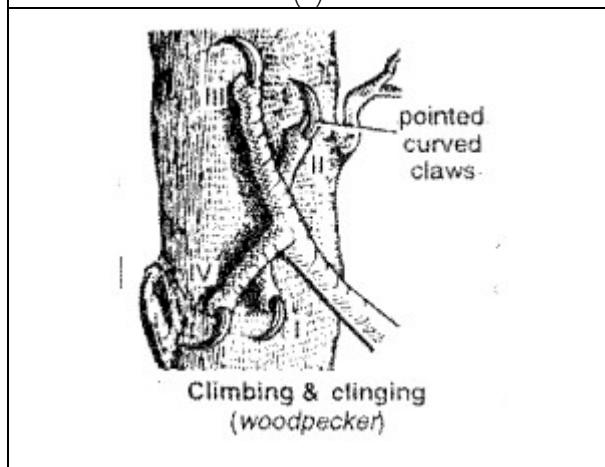
- 1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] nad [f]) given below with suitable reasons: $3 \times 2 = 6$**

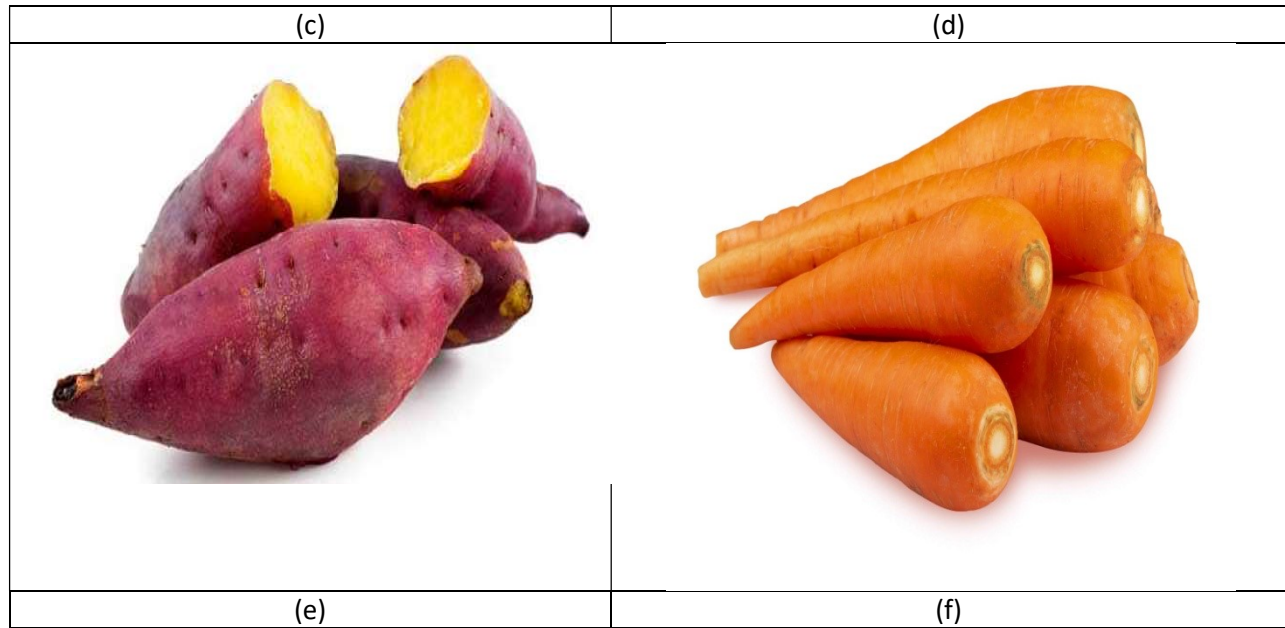


(a)



(b)





2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

42, 85, 76, 196, 167, 168, 166, 84, 42, 34, 19, 6, 33, 53, 64, 66, 47, 48, 72, 88, 174, 199, 87, 78, 77, 34, 25, 55, 79, 92.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

- - -

4. Submit your practical notebook: 2

B.Sc (Honours) Practical Examination 2022-2023

Department of Zoology

Semester-VI

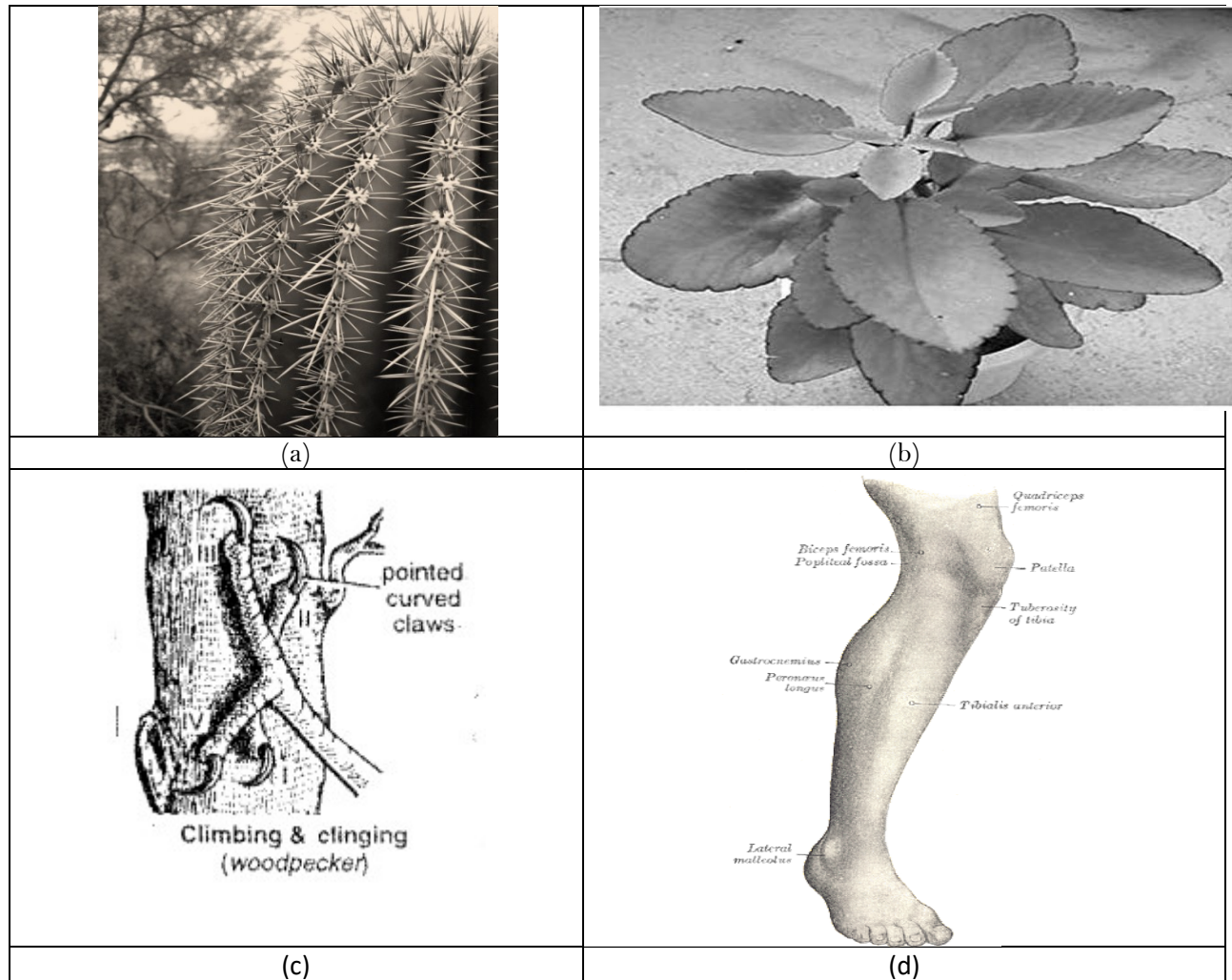
Paper: CC-14 (Evolutionary Biology)

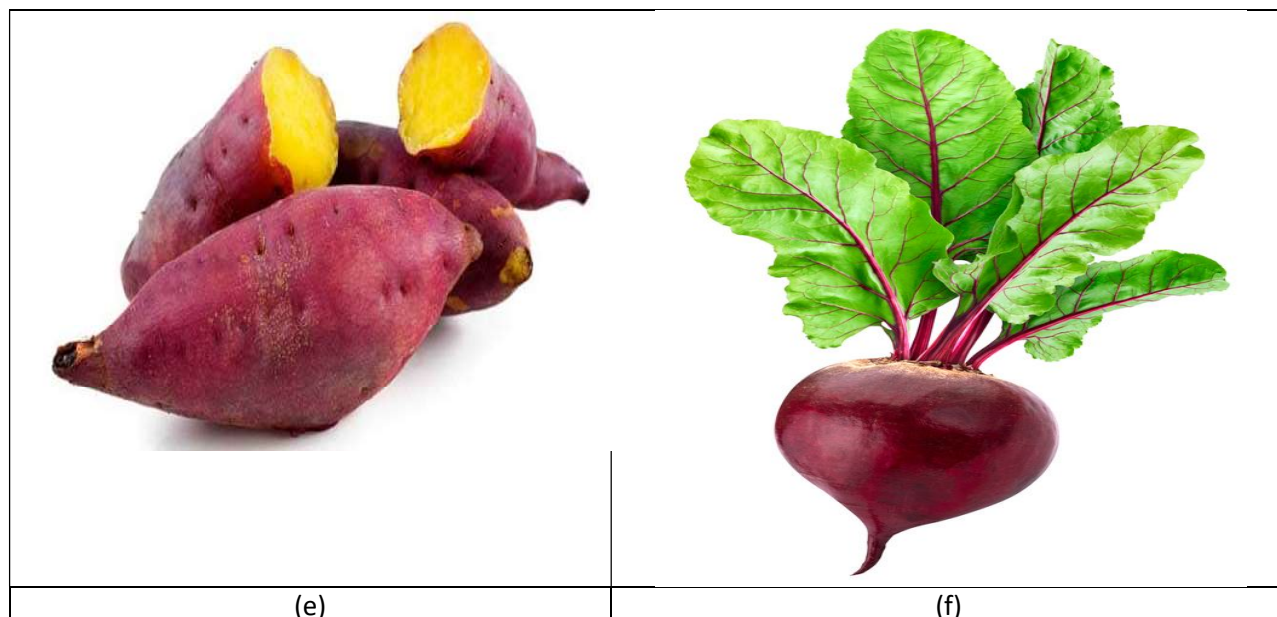
Full Marks: 20

Time: 2 hours

Roll no: 200341000044

- 1. Describe the homologous or analogous organs by comparing ([a] and [b], [c] and [d], [e] and [f]) given below with suitable reasons: $3 \times 2 = 6$**





2. In a certain population people are of following weight (kg). Determine Mean, Mode and Median weight of that population? 6

42, 85, 76, 196, 167, 168, 166, 84, 42, 34, 19, 6, 33, 53, 64, 66, 47, 48, 72, 88, 174, 199, 87, 78, 77, 34, 25, 55, 79, 92.

3. Answer the Question: 6

Solve the Problem We are interested to see whether HWE exists at a di-allelic locus having alleles M and m . We randomly select 80 individuals, of which 9, 29, and 42 individuals have genotypes MM , Mm , and mm respectively. Check whether HWE exists at this locus.

4. Submit your practical notebook: 2