

B-24-Z

Roll No.....

Total No. of Questions : 14]

[Total No. of Printed Pages : 3

XIIARJKUT23

9124-Z

ZOOLOGY

(Biology)

Time : 1½ Hours]

[Maximum Marks : 35

SECTION-A

(OBJECTIVE TYPE QUESTIONS)

1 each

1. Expand the term 'MTP'.
2. Human Genome consists of 46 chromosomes. (True/False)
3. HIV causes (Fill in the blank)
4. Name a volatile alkaloid present in Tobacco.

XIIARJKUT23-9124-Z

B-24-Z

Turn Over

SECTION B

(VERY SHORT ANSWER TYPE QUESTIONS) 2 each

5. What are the points of difference between 'GIFT' and 'ZIFT' ?
6. Enlist the symptoms of Typhoid
7. What is the function of Endonucleases ?

Or

Give the application of genetically Engineered Insulin

SECTION-C

(SHORT ANSWER TYPE QUESTIONS) 3 each

8. Draw a well labelled diagram of a T.S. of a Human Ovary
9. What are the steps involved in DNA Fingerprinting ?
10. Explain briefly Hardy-Weinberg equilibrium.
11. Define Immunity. Write a short note on Immunoglobulins
12. What are Bio-safety issues ?

Or

Give an account of Gene-cloning.

SECTION-D

(LONG ANSWER TYPE QUESTIONS)

5 each

13. What is Sexual Reproduction ? Describe the process of gamete formation in human males.

Or

Define Uni-parental Reproduction. Explain any *three* modes of asexual reproduction in the animal world.

14. What are Chromosomal Disorders ? Describe the Down's syndrome.

Or

What is Sex Determination ? Explain the sex determination mechanism in human beings.

B-24-X

Roll No.

Total No. of Questions : 14]

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XIIARJKUT23

9124-X

ZOOLOGY

(Biology)

Time : 1½ Hours]

[Maximum Marks : 35

SECTION-A

(OBJECTIVE TYPE QUESTIONS)

1 each

1. Expand the term 'MTP'.
2. The last and only chromosome pair in humans is called 'Autosome'.

(True/False)

3. The causative agent of 'Filariasis' is

(Fill in the blank)

4. Name a volatile alkaloid present in Tobacco.

XIIARJKUT23-9124-X

B-24-X

Turn Over

SECTION-B

(VERY SHORT ANSWER TYPE QUESTIONS)

2 each

5. What are the points of difference between 'GIFT' and 'ZIFT' ?
6. Enlist the symptoms of Typhoid.
7. What is the function of Endonucleases ?

Or

Give the application of genetically Engineered Insulin.

SECTION-C

(SHORT ANSWER TYPE QUESTIONS)

3 each

8. Draw a well labelled diagram of a T.S. of a Human Ovary.
9. What are the steps involved in DNA Fingerprinting ?
10. Explain briefly Hardy-Weinberg equilibrium.
11. What is a Parasites ? Add a note on Ascariasis in humans.
12. What are 'Bio-safety issues' ?

Or

Give an account of Gene-cloning.

SECTION-D

(LONG ANSWER TYPE QUESTIONS)

5 each

13. What is Sexual Reproduction ? Describe the process of gamete formation in human males.

Or

Define Uni-parental Reproduction. Explain any *three* modes of asexual reproduction in the animal world.

14. Explain the various Mendelian disorders found in humans.

Or

Discuss the sex-determination mechanisms found in birds and honeybees.

B-24-Y

Roll No.....

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XIIARJKUT23

9124-Y

ZOOLOGY

(Biology)

Time : 1½ Hours]

[Maximum Marks : 35

SECTION-A

(OBJECTIVE TYPE QUESTIONS)

1 each

1. ✓ Expand the term 'MTP'.
2. ✓ The chromosomes are located on small units called 'Genes'.
(True/False)
3. ✓, the causative agent of Malaria is carried by Anopheles.

(Fill in the blank)

4. ✓ Name a volatile alkaloid present in Tobacco.

XIIARJKUT23-9124-Y

B-24-Y

Turn Over

SECTION-B

(VERY SHORT ANSWER TYPE QUESTIONS) 2 each

5. ✓ What are the points of difference between 'GIFT' and 'ZIFT' ?
6. ✓ Enlist the symptoms of Typhoid.
7. ✓ What is the function of Endonucleases ?

Or

Give the application of genetically Engineered Insulin.

SECTION-C

(SHORT ANSWER TYPE QUESTIONS) 3 each

8. Draw a well labelled diagram of a T.S. of a Human Ovary.
9. ✓ What are the steps involved in DNA Fingerprinting ?
10. ✓ Explain briefly Hardy-Weinberg equilibrium.
11. ✓ What is a Malignant tumour ? Write about some available treatments against Cancer. <https://www.jkboseonline.com>
12. ✓ What are 'Bio-safety issues' ?

Or

Give an account of Gene-cloning.

SECTION-D

(LONG ANSWER TYPE QUESTIONS)

5 each

13. What is Sexual Reproduction ? Describe the process of gamete formation in human males.

Or

✓ Define Uni-parental Reproduction. Explain any *three* modes of asexual reproduction in the animal world.

14. What do you understand by Inheritance of Characters ? What is the pattern of inheritance of colour blindness in humans ?

Or

✓ Define a Syndrome. Discuss the Klinefelter's and Turner's Syndromes.