

Model Question paper

Genetics (Z) 2

11th Standard

Biology

Reg.No. :

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I. Answer all the questions.

II. Use blue pen only.

Time : 00:45:00 Hrs

Total Marks : 30

6 x 1 = 6

Part - A

- 1) Holandric genes are ----- genes.
(a) X-linked (b) Y-linked (c) Autosomal (d) Multiple
- 2) The cells that are responsible for colour vision in man are ----- cells.
(a) Cone (b) Rod (c) Nerve (d) Epithelial
- 3) The hereditary disease that affect the red blood cells of human beings is -----
(a) Sickle cell anaemia (b) Phenylketonuria (c) Haemophilia (d) Achromatopsia
- 4) Short statured, mental deficiency, widely spaced incisors, etc., are the symptoms seen in -----
(a) Klinefelter's syndrome (b) Turner's syndrome (c) Sickle cell anaemia (d) Phenylketonuria
- 5) X/A ratio in super females is -----
(a) 1.5 (b) 1.0 (c) 0.6 (d) 0.5
- 6) Holandric genes occur exclusively on
(a) X-chromosomes (b) Y-chromosomes (c) autosomes (d) both X and Y chromosomes

Part - B

5 x 2 = 10

- 7) Who are mulattoes?
- 8) What is Hermaphroditism?
- 9) What is arrhenotokous parthenogenesis?
- 10) What are holandric genes
- 11) Provide the genotypes for himalayan albino rabbits

Part - C

3 x 3 = 9

- 12) Write notes on quantitative inheritance.
- 13) Provide an account on Turner's syndrome and Klinefelter's syndrome.
- 14) Describe the process of sex determination in Bonellia.

Part - D

1 x 5 = 5

- 15) What is sex - linked inheritance ? Give an account of x - linked inheritance in Drosophila.
