

C 80752

(Pages : 2)

Name.....

Reg. No.....

FOURTH SEMESTER M.Sc. DEGREE EXAMINATION, MARCH 2020

(CUCSS)

Zoology

ZO 4ET 11—HUMAN GENETICS—II : DIAGNOSTIC GENETICS

Time : Three Hours

Maximum : 36 Weightage

Part A

I. Write short notes on all the *fourteen* questions :

- 1 Leish nyhan syndrome.
- 2 Syndromology.
- 3 PGD.
- 4 mFISH probes.
- 5 Symptoms of bleeding disorders.
- 6 Ultrasonography.
- 7 Spectral karyotyping.
- 8 VNTR sequences.
- 9 Chorioallantoic placenta.
- 10 Role of SRY gene.
- 11 Implantation.
- 12 Menkes syndrome.
- 13 Gaucher's disease.
- 14 Acute porphyria.

(14 × 1 = 14 weightage)

Part B

II. Answer any *seven* of the following :

- 15 With suitable examples explain peroxisome biogenesis disorders.
- 16 Give an account on human genital differentiation.

Turn over

- 17 Explain assisted reproductive techniques.
- 18 Explain how the female reproductive system produces egg ?
- 19 Give an account on the preparation and classification of probes.
- 20 Give an outline of the steps involved in DNA fingerprinting.
- 21 Give an account on non-invasive techniques carried out for prenatal diagnosis.
- 22 Give an account on haemoglobinopathies.
- 23 Explain glycogen storage disorders.
- 24 Give an account on various types of neural tube defects.

(7 × 2 = 14 weightage)

Part C

III. Answer any *two* of the following :

- 25 With suitable examples, explain the genetics of inborn errors of metabolism.
- 26 Write an essay on human prenatal development.
- 27 Explain the principle, methodology, and applications of various blotting techniques.
- 28 How prenatal genetic disorders are diagnosed and treated.

(2 × 4 = 8 weightage)