

2023
M.Sc.
Third Semester
DISCIPLINE SPECIFIC ELECTIVE – 01
ANTHROPOLOGY
Course Code: MAND 3.11(A)
(Medical Genetics)

Total Mark: 70
Time: 3 hours

Pass Mark: 28

Answer five questions, taking one from each unit.

UNIT-I

1. Discuss the history and development of medical genetics. 14
2. Explain the interaction of gene and environment in hypertension. 14

UNIT-II

3. Discuss the pathophysiology of familial hypercholesterolemia. Mention the symptoms and treatment. 8+3+3=14
4. Define haemoglobinopathies. Discuss the haemoglobin disorder with reference to sickle cell anemia. 2+12=14

UNIT-III

5. “Oncogenes are the molecular drivers of cancers.” Elaborate. 14
6. Discuss the genetics of familial cancer with special reference to breast cancer. 14

UNIT-IV

7. Discuss the relevance and application of prenatal diagnosis and genetic counselling in health care system. 14
8. Examine the applied aspects of population screening and community genetics citing some examples. 14

UNIT-V

9. Write notes on the following: 7×2=14
(a) Inborn error metabolism
(b) Environmental factors in cancer
10. Write notes on the following: 7×2=14
(a) Impact of genetics in medicine
(b) Innate immunity
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