

2021
M.Sc.
Third Semester
DSE – 01
ANTHROPOLOGY
Course Code: MAND 3.11 (A)
(Medical Genetics)

Total Mark: 70

Pass Mark: 28

Time: 3 hours

Answer five questions from the following.

1. Give a brief account on the impact of genetics in medicines. 14
2. Explain briefly the interaction of gene and environment in diabetes. 14
3. What do you understand by inborn error of metabolism? Briefly explain the disorder of amino acid metabolism with an example. 14
4. Define haemoglobinopathies. Explain briefly the disorder of haemoglobin in the light of sickle cell anemia. 14
5. Briefly discuss how you would differentiate between genetic and environmental factors in cancer. 14
6. Write a note on the ethical, legal and social (ELSI) issues in medical science. 14
7. Give an exploratory account on major histocompatibility complex. 14
8. Write short notes any *two*: 7×2=14
 - (i) Single gene disorder

- (ii) Pharmacogenetics
 - (iii) Bone marrow transplantation
 - (iv) Innate and acquired immunity
 - (v) Genetic counselling
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