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PG/IVS/ANT-401/14

**M.Sc. 4th Semester Examination 2014**

**ANTHROPOLOGY**

*(Bio/Socio )*

**PAPER – ANT-401**

*Full Marks : 50*

*Time : 2 hours*

*The figures in the right hand margin indicate marks*

*Candidates are required to give their answers in their own words as far as practicable*

*Illustrate the answers wherever necessary*

*(Bio)*

**Answer Q.No.1 and three from the rest**

**1. Answer any five of the following :                      2 × 5**

**(a) Write the full form of SNP and RFLP.**

*( Turn Over )*

( 2 )

- (b) Define balanced polymorphism.
  - (c) Define inbreeding coefficient.
  - (d) What do you mean by gene flow ?
  - (e) Define point mutation.
  - (f) What is heterozygosis ?
  - (g) Define selfing.
  - (h) What is founder effect ?
2. What could be the effect of inbreeding in a population ? Calculate the inbreeding coefficient of full sib and half sib mating with suitable pedigrees. 4 + 6
3. Discuss the types of mutation. Differentiate mutation from genetic drift. 7 + 3
4. Describe stepping stone and diffusion models of isolation. 5 + 5

( 3 )

5. Explain with suitable examples the utility of molecular genetics in biological anthropological research. Briefly describe the concept of genome. 8 + 2
6. What are the assumptions of Hardy-Weinberg principle ? Briefly discuss the applications of Hardy-Weinberg principle. In a sample of 146 individuals who were typed for PTC tasting ability, 105 were tasters and 41 were non-tasters. What are the frequencies of allele 'T' and 't' ? 3 + 3 + 4

[*Internal Assessment* : 10 Marks ]

(*Socio*)

**Q.No.1** is compulsory and answer **three** questions from the rest

1. Answer any *five* questions of the following : 2 × 5
- (a) Distinguish between rationalist and anti-intellectual theories in social-cultural Anthropology.

( 4 )

- (b) Mention the four varieties of social evolutionism in social-cultural Anthropology.
  - (c) Distinguish between classificatory and descriptive types of kinship terminology.
  - (d) Differentiate, societies characterised by 'status' and 'contract'.
  - (e) Draw a schematic diagram of the structure of a social institution as proposed by B. Malinowski.
  - (f) Define 'Historical particularism' in the context of culture.
  - (g) Name two exponents of 'Neo-evolutionism'.
  - (h) What is 'Differential evolution' ?
2. Mention the different intellectual sources of Julian Steward's idea of cultural ecology. Discuss briefly about the concept of culture core as developed by steward. 6 + 4
3. Make a comparative assessment of the ideas of A. R. Radcliffe-Brown and B. Malinowski on 'Function'. 10

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( 5 )

4. Discuss briefly about the contributions of L.A. White in social-cultural Anthropology. 10
5. Following Margaret Mead, examine the relationship between culture and personality. 10
6. Comment on Edward Evans-Pritchard's line of approach advocating social history as a model of social anthropology. 10

*[Internal Assessment : 10 Marks ]*

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