LIBRARY

2. (a) What are fostis 0:23 alain the various

(6th Semester)

ZOOLOGY

Paper : Z00/C14

evolution of modern horse.

muchdilin (Evolutionary Biology)

and its applicances. What are the

which south Full Marks: 75 mollidam

Pass Marks: 40%

Time:: 3 hours

The figures in the margin indicate full marks

1. (a) Explain the various principles of Darwin's theory of natural selection and discuss how industrial melanism serves as an evidence supporting natural selection.

or Or

(b) Explain Lamarck's theory of the origin of species with appropriate examples and highlight its criticisms. 10+5=15

(Turn Over)

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2. (a) What are fossils? Explain the various types of fossils. Provide a brief overview of the geological timescale, highlighting key events.

1+7+7=15

Or

(b) What are transitional fossils? Discuss the evolution of modern horse. 2+13=15

Paper - 200 / L14

3. (a) Discuss Hardy-Weinberg equilibrium and its applications. What are the evolutionary forces upsetting Hardy-Weinberg law? 7½+7½=15

Or

- (b) Briefly explain selection coefficient with the help of a suitable example. Discuss genetic drift. 5+10=15
- 4. (a) Write a note on the concept of species.

 Discuss pre-mating and post-mating isolation mechanism. 2+13=15

Or

(b) What is gradual speciation? Explain the different modes of speciation. 2+13=15

L25/585

(Continued)

(3)

5. (a) Discuss the origin and evolution of Man.

Or

(b) What are the evolutionary changes that developed in modern humans? Discuss the molecular analysis of human origin.

5+10=15

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Bs/ZOO/C14

15