

Unit-III / FkæF-III

6. Describe the structure of Mammalian egg and process of oogenesis, With the help of suitable diagrams. 7½

mTeedreJeeLlkeå DeC [skeåer j Úvee S JebDeC [peveve keåer ofeåÚee keåe meåÚeSe
JeCeåte keåæpeS~

7. Write short notes on the following: 7½

efrecveåeeKee hej eShæeCåÚeeB åÚeeKeeS :

(i) Pattern of Cleavage

efeeoueve keåe åeele™he

(ii) Fertilization

åre-åÚee

Unit-IV / FkæF-IV

8. Describe structure, types and functions of Placenta. 7½

Deheje keåer j Úvee, Úeeåej S Jeb keåÚeeK keåe JeCeåte keåæpeÚes

9. Describe the development of Chick embryo upto the formation three germ layers. 7½

Úepes keåe YeCe keåe efkeååeme keåe Teåre peveve keåe efrecveåee Tekeåe
JeCeåte keåæpeS~

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(Printed Pages 4)

Roll No. _____

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B.Sc. (Part-II) Examination, 2015

ZOOLOGY

Second Paper

(Animal Distribution, Evolution & Embryology)

Time Allowed : Three Hours] [Maximum Marks : 50

Note : Answer Five questions in all. Question No. 1 is compulsory. Attempt one question from each Unit.

keåue heåÚe åelMveåÚeeåe Gåej åæpeS~ åelMve meå 1 DeåreJeeÚeeåeråw
åelÚeeåe FkæF&mes Skeåe åelMve keåæpeS~

1. (a) Describe briefly the following: 5 × 2 = 10
efrecveåeeKee keåe meåÚeåÚee JeCeåte keåæpeS :

(i) Biogenetic Law

yeåÚeeåreåÚeeåe åreåÚee

(ii) Geographical barriers

YeåÚeeåÚeeåe DeJeeåÚee

(iii) Genetic drift

peåreer DeheJerve

P.T.O.

(2)

(iv) Extra embryonic membranes

JeeCe YeCeDe keaueS

(v) Darwin's Finches

[ej eIve kaer ehaUel

(b) Differentiate between the following

5 x 2 = 10

efrecveueeKele cellDevleJ yeleeFS :

(i) Homologous and Analogous Organs

mecepele SJeB mece™he Dele

(ii) Sympatric and Allopatric species

Skaomlede SJeB efveomlede peelle

(iii) Blastula and Gastrula stage

yucmŠgrec SJeB iamŠluee DeJemLee

(iv) Java ape man and Peking ape man

peeJee kaache ceevele SJeB hekaale kaache ceevele

(v) Cleavage and Cell division.

efleoueve SJeB kaasMekeae efveepeve~

Unit-I / FkaeF-I

2. What is Geological Time Scale? Describe in detail

the fauna of Mesozoic era.

7 1/2

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(3)

Yeanteka meceUe meej CeerkeUee nIP ceemeepeeF kaer cenekauehe kaer pevlepeel
kaer efemlele JeCeUe kaerpeS~

3. Enumerate the main Zoo-geographical region
of the world. Describe the limits and fauna of
Ethiopian region. 7 1/2

efleOe kaer efleUeUe beecCe Yeeciesuekaer beomlellkaer ieCeeve keaerpeS~
FelleUeesheUeve #eŠe kaer mecece SJeB pevlepeelW JeCeUe kaerpeS~

Unit-II / FkaeF-II

4. Describe four evidences in support of Organic
evolution. 7 1/2

pele eflekaeme kaer he#e cellU: beceCeellkaer JeCeUe kaerpeS~

5. Write short notes on any two of the follow-
ing: 7 1/2

efrecveueeKele cellmes kaerUe oes hej eŠheCeer eflekeS~

(i) Role of mutation in Organic evolution

pele eflekaeme cellGtheef JeleUe kaer Ueescovee

(ii) Neolamarckism and Neodarwinism

veJueemekeUeoo lelee vele[ej efveJeeo~

(iii) Species concept

bepeelle DeJeeJ Cee

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P.T.O.