

(4)

7. Give an account of digestive organs and mechanism of feeding in Lamellidens. 7½
'uesf'eueer[yme' keā heeUekeā DehceWleLee DeMve eleeDe keāe JeCeāe
keāepeS-

Unit-IV/FkeāF-IV

8. Classify phylum Echinodermata giving diagnostic characters and examples of each group up to orders. 7½
FkeāFvee[coise mecepeDe keāe ieCe lekeā Jeieheāj Ce DeUekeā meceh keā
ue#eCeeWSeJeb Goenj Ce meehle keāepeS-

9. Write notes on any three of the following: 7½
e[recveeueeKele cellmes ekeāvneR leere hej eShheCeeDeeB eueeKeS:

- (i) Tube feet
veueheeo
- (ii) Stone Canal
mšere keāveeue
- (iii) Madreporite
ce[ehceej eFš
- (iv) Polian vesicle.
heestueveve DeemeUe-

S-656

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(Printed Pages 4)

Roll No. _____

S-656

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

ZOOLOGY

Second Paper

(Annelida to Echinodermata)

Time Allowed : Three Hours] [Maximum Marks : 50

Note : Answer five questions in all. Question No. 1 is compulsory. Remaining questions to be answered should be one question from each Unit. Illustrate your answers with suitable diagrams.

keāue heeBe DeMveeUkeā Gōej oapeS- DeMve meh 1 DeceJeeUe&nw
Mese DeMveeSej nšegDeUekeā FkeāF&mes Skeā DeMve ekeāUee peeeve
nw Deheves Gōej eUeSeellWÉej e mhe° keāepeS-

1. Describe the following in brief: 2 × 10 = 20
e[recveeueeKele keāe me#ebe cellUeCete keāepeS:

- (i) Glochidium larva
iuee[keāe[Uece e[cykeā
- (ii) Bee language and communication
ceOegekeiKeer keāer Yee-ee SeJeb mehleej
- (iii) Cocoon
keāe[lee

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(2)

- (iv) Radula
leefette
- (v) Dorsal ciliated organ
he%o heSeceeeYeer Dele
- (vi) Hastate plate
nmšš hues
- (vii) Metanephridia in Nereis
vej eme cellWcešveveeaeaf[Ùee
- (viii) Arenicola
Sj evreekeaeuree
- (ix) Odontotermes
Dees[evšesšcolne
- (x) Pearl formation
ceeteer keae efceeeCe

Unit-I / FkeaeF-I

- 2. Describe the alimentary canal and mechanism of feeding of Hirudinaria. 7 1/2
'nefMef[vesfjÙee' kea Deenej veue SJeB DelMeve efleeDe keae JeCete keaepeS-
- 3. What is the significance of Heteronereis with respect to swarming? Discuss the differences between Nereis and Heteronereis. 7 1/2
'nšj evvej eme' kea peeteve cellmJeej eteDe keae kellee cenIJe nIP 'vesfj me' SJeB 'nšj evvej eme' cellWDevlej keae efleešveee keaepeS-

(3)

Unit-II / FkeaeF-II

- 4. Give an account of structure of compound eye of Palaemon and mention the mechanism (Working) of compound eye. 7 1/2
'hemueceeeve' kea mebegea veše keae mejÙeeve keae JeCete keaepeS leLee keaeJek kaj ves keae efleeDe keae Yeer JeCete keaepeS-
- 5. Draw well labelled diagram of any two of the following (No description is required). 7 1/2
efreevedeekete cellmeskeavnRoekae veeceekaele efleeSe yeveeFS (JeCete keae DeelMÙkeaelee veneRn):
(i) Mouth parts of Honey-bee
ceDegekekeer kea celKeete
(ii) Sting apparatus of Honey-bee
ceDegekekeer kea omleÙee
(iii) Zoea larva.
peefÙee efcYekae-

Unit-III / FkeaeF-III

- 6. Describe the respiratory organs and mechanism of respiration in Pila. 7 1/2
'heeFucee' kea Öemeve DeleellSJeB Öemeve efleeÙee efleeDe keae JÙeeKÙee keaepeS-