



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTIONS – 27

Class: XII

Sub: Biological Science

Date: 06.07.2020

**Topic: Ch 7 (part 5) Embryological and Molecular Evidences of Biological Evolution
And Adaptive radiation**

F.M. : 15

Choose the correct option:

(1x15=15)

1. The study of development of _____ is called embryology.
a) Zygote b) Embryo c) Larvae d) All of these
Answer : Embryo (b)
2. The early stages of embryo development of man the embryo of man resembles that of :-
a) Rabbit b) Pigeon c) Fish d) All of these
Answer : All of these (d)
3. The prominent feature of early vertebrate embryos is :-
a) Presence of limb buds b) Presence of notochord c) Pharyngeal gill clefts d) All of these
Answer : All of these (d)
4. Ontogeny recapitulates phylogeny means :-
a) Developmental history repeats evolutionary history b) Evolutionary history repeats developmental history c) Development of embryos are unrelated d) None of these
Answer : Developmental history repeats evolutionary history (a)
5. The Biogenetic law was proposed by :-
a) Hugo de Vries b) Charles Darwin c) Ernst Haeckel d) None of these
Answer : Ernst Haeckel (c)
6. Marsupials have evolved about _____ million years ago.
a) 90 b) 2 c) 25 d) 45
Answer : 90 (a)
7. Marsupials are presently found only in :-
a) North America b) Australia and New Zealand c) South America d) All of these
Answer : Australia and New Zealand (b)
8. The pouched mammals are called :-
a) Marsupials b) Monotremes c) ungulates d) Rodents
Answer : Marsupials (a)
9. Divergent Evolution is also known as :-
a) Adaptive Convergence b) Convergent Evolution c) Adaptive radiation d) Radiation
Answer : Adaptive radiation (c)

10. The origin of new species in the same geographical area is called :-
a) Speciation b) Allopatric Speciation c) Sympatric speciation d) All of these
Answer : Sympatric speciation (c)
11. Adaptive radiation is caused by :-
a) Reproductive isolation b) Geographical isolation c) Diurnal Separation d) All of these
Answer : Geographical isolation (b)
12. The total number of Passerine species which developed from the ancestral finch stock is :-
a) 16 b) 5 c) 22 d) 12
Answer : 22 (c)
13. The finches differ from each other by their :-
a) Camouflage b) Shape of the beak c) Feeding habit d) All of these
Answer : All of these (d)
14. Molecular evidence of Biological Evolution includes :-
a) Similarity in structure of DNA b) Similarity in metabolic process c) Development of embryo
d) Both (a) and (b)
Answer : Both (a) and (b) (d)
15. The basic structure of _____ is similar in all organisms.
a) 16s rRNA b) Cytochrome C c) Chlorophyll d) 18S rRNA
Answer : 16s rRNA (a)

Shaista Ahmed