

Subject: BIOLOGY DPP No.: 10 Class: XIIth Date:

Topic:- Evolution								
1.	Birbal Sahni was a) Palaeobotanist	b) Zoologist	c) Ornithologist	d) Palaeozoologist				
2.	England in 1850s, <i>i.e.</i> , before industrialization set in, it was observed that there were more white-winged moths on trees than dark-winged or melanised moths. However, in the collection carried out from the same area, but after industrialization, <i>i.e.</i> , in 1920, there were more dark-winged moths in the same area, <i>i.e.</i> , the proportion was reversed Predict the possible reason for such change a) Natural selection b) Artificial selection c) Conditional selection d) Divergent selection							
3.	remain the same through §	generations. <mark>Hard</mark> y-Wein for A, B and C to comple e, C-algebraic	eles of a gene is supposed to berg principle stated it using te the given NCERT statemen b) A-frequency, B-stable, d) A-frequency, B-stable,	gC equation nt C-algebraic				
4.	Which of the following pro a) Fossils	vides most evident prod b) Morphology	of of evolution? c) Embryo	d) Vestigial organs				
5.	Which set includes only analogous organs? a) Wings of butterfly, housefly and bat b) Hindlegs of horse, grasshopper and bat c) Wings of butterfly and wingspead of bat and birds d) Mandibles of cockroach, mosquito and honey bee							
6.	Study of fossils is called a) Organic evolution	b) Herpetology	c) Cytology	d) Palaeontology				
7.	Hugo de Vries's experimera) Fruitfly	ntal organism was b) China rose plant	c) Four O'clock plant	d) Evening primrose				

- 8. A biologist is trying to infer how five closely related species of snakes are related to one another. She noticed that some of the snakes have forked tongues and others do not. Which of the following would help her to distinguish their ancestral state?
 - a) She looks among snake fossils for evidences that being forked is a characteristic of the ancestor of this group, but determines no such fossils exists
 - b) She locates a specimen of a more distantly related snake to see if it has a forked tongue
 - c) She looks at a representative mammal species to see if it has a forked tongue
 - d) She flips a coin
- 9. Origin of life occurred in
 - a) Precambrian
- b) Coenozoic
- c) Palaeozoic
- d) Mesozoic
- 10. In which of the following situations would evolution would occur

Migration	Selection	Variatio	
	Pressure	ns due	
		to	
		Mutatio	
		n	
I. Absent	Low	Low	
II. Absent	High	High	
III. High	Low	High	
IV. High	High	Low	

Select the correct using the codes given below

- a) I and II
- b) I and III
- c) I and IV
- d) II, III and IV

- 11. Theory of natural selection was given by
 - a) Lamarck
- b) Darwin
- c) Alfred Wallace
- d) JBS Haldane
- 12. What's the difference between natural selection and sexual selection?
 - a) Sexual selection occurs during sexual inter course b) Natural selection is a type of sexual selection
 - c) Sexual selection is a type of natural selection
- d) Sexual selection occurs within demes
- 13. What do homologous organs indicates?
 - a) Different ancestry

b) Common ancestry

c) Independent development

- d) Dependent development
- 14. Proteins found in the blood of man and ape are similar. This is an example of
 - a) Cellular homology
- b) Molecular homology
- c) Cellular analogy
- d) Molecular analogy
- 15. According to the Neo-Darwinian theory, which of the following is responsible for the origin of new species?
 - a) Mutations

- b) Useful variations
- c) Mutation together with natural selection
- d) Hybridization

16.	'Continuity of germplasm' theory was given by					
	a) Hugo de Vries	b) Weismann	c) Darwin	d) Lamarck		
17.	Select the wrong pair a) Oparin – Probiont c) Haldane – Hot dilute soup		b) Spallanzani – Approve abiogenesisd) Fox – Coacervates			
18.	Divergent evolution gives rise to					
	a) Homologous organ	b) Analogous organs	c) Both (a) and (b)	d) None of these		
19.	The greatest evolutionary change enabling the land vertebrates to be completely free from the water. Habitat was the development of					
	a) Four legs		b) Four-chambered heart			
	c) Lungs		d) Shelled eggs and internal fertilization			
20.	Which of the following is not an examples of adaptive radiation?					
	a) Wombat, marsupial rat, flying phalanges		b) Darwin's finches			
	c) Different placental man	nmals in Australia	d) Placental wolf and T	asmanian wolf		