

Class: XIIth Subject: BIOLOGY Date: DPP No.: 7

## **Topic :- Evolution**

- 1. The cranial capacity of Peking man was about
  - a) 900 cc
- b) 1660 cc
- c) 1075 cc
- d) 1450 cc

- 2. Resistant varieties evolved in much lesser time because of
  - a) Natural selection

- b) Faster rate of mutation
- c) Anthropogenic (human) activities
- d) Random selection
- 3. Which of the following features are true for stabilizing type of natural selection?
  - a) Selection of averaged individual
  - b) It reduces variation
  - c) It is bell-shaped
  - d) All of the above
- 4. Homologous organs indicate the
  - a) Convergent evolution
  - c) Common descendent

- b) Parallel evolution
- d) Natural selection
- 5. Evolutionary convergence is the development of
  - a) Common set of characters in a groups of different ancestry
  - b) Dissimilar characters in closely related groups
  - c) Common set of characters in closely related groups
  - d) Development of characters by random mating
- 6. Which of the following is a pair of analogous organs?
  - a) Contractile vacuole in *Amoeba* and uriniferous tubule in frog
  - b) Paddle of whale and front legs of horse
  - c) Mouth parts in insects
  - d) Forelimbs in lizard and wings in birds
- 7. First evidence of ceremonial burial of dead body and belief in religion have been found with fossil of
  - a) Neanderthal
- b) Cro-magnon
- c) Homo erectus
- d) Homo habilis

8.	Which of the given pairs are correct I. Wings of insects and birds are homologous organ II. Wings of bats and bird are homologous organ III. Wings of insect and bats are analogous IV. Wings of insect and bird are analogous Choose the correct option						
	a) I and II	b) I and III	c) I and IV	d) II, III and IV			
9.	In a random mating population in equilibrium, which of the following brings about a change in gene frequency in non-directional manner?						
	a) Selection	b) Migration	c) Mutation	d) Random drift			
10.	The theory of pangenesis was rejected due to the acceptance of						
	a) Spallanzani theory of biogenesis		b) Richter theory o	b) Richter theory of cosmozoic			
	c) Cuvier theory of catastrophism		d) Weismann theor	d) Weismann theory of germplasm			
11.	There was no life in						
	a) Cenozoic era	b) Mesozoic era	c) Palaeozoic era	d) Azoic era			
12.	<ul> <li>Why is the advent of reproductive isolation is important from an evolutionary standpoint</li> <li>a) When the organisms comprising two population of a species can no longer interbreed, the flow of genetic material between them stops</li> <li>b) It is not important from an evolutionary standpoint. The question is based on a false assumption</li> <li>c) Reproductive isolation increases the mutational rate</li> <li>d) Reproductive isolation may slow down reproduction</li> </ul>						
13.	There are two opposing views about origin of Modern man. According to one view, <i>Homo eretus</i> in Asia were the ancestors of modern man. A study of variations of DNA however suggested African origin of modern man. What kind of observation on DNA variation could suggest this?  a) Greater variation in African than in Asia b) Variation only in Asia and no variation in Africa c) Greater variation in Asia than in Africa d) Similar variation in Africa and Asia						
14.	A population containing a gene 'X' with two alleles 'Aa' is in Hardy-Weinberg equilibrium for gene 'X'. If t gene frequency of allele 'A' is 0.2, allele frequency of 'a' is						
	a) 0.2	b) 0.42	c) 0.8	d) 1			
15.	Which of the following are I. Hands of man and wings II. Wings of bat and wings III. Wings of bird and wing IV. Fins of fish and forelim V. Forearm of human and The correct combination in	s of bat of cockroach gs of butterfly abs of horse forelimbs of horse	mologous organs?				

	a) I and II	b) I and V	c) III and IV	d) IV and V		
16.	Which of the following presumably possesses a cranial capacity larger than modern man?  a) Neanderthal man  b) Peking man  c) Australopithecus  d) Cro –magnon ma					
17.						
18.	Which of the following statement is correct?  a) Adaptation due to geographical isolation  b) Evolution of different species from a common ancestor  c) Migration of members of a species to different geographical areas  d) Power of adaptation in an individual to a variety of environments					
19.	Genetic drift in also known a) Hardy effect c) Hardy-Weinberg effect		b) Weinberg effect d) Sewall Wright effect			
20.	, ,		be represented by an extin	ct group? d) Cycads		