

Subject : BIOLOGY DPP No. : 4 Class: XIIth Date:

		Topic :- Evo				
1.	Somatic cells of gorilla, chimpanzee and orangutan have					
	a) 44 chromosomes	b) 42 chromosomes	c) 46 chromosomes	d) 48 chromosomes		
2.	Natural selection					
	I. tends to increase its characters that enhances survival and reproduction II. causes adaptation					
	III. acts on organism phenotype					
	IV. mechanism of evolution explained by Darwin					
	Which of the following statements are correct?					
	a) I, II, III	b) I and II	c) II and IV	d) I and III		
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3.	Darwinian fitness can be estimated by					
	a) How long different indiv <mark>idual</mark> in a population survive					
	b) Number of offsprings pr <mark>oduced by diff</mark> erent individual in population					
	c) Individual have a lar					
	d) Species recover after	mass extinction				
4.	The first life on earth co	onsists of				
	a) Provirus	b) Protovirus	c) Virus	d) Bacteria		
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5.	Factor affecting the process of speciation are					
	I. Mutation					
	II. Recombination					
	III. Natural selection					
	IV. Hybridisation					
	V. Genetic drift					
	VI. Polyploid					
	VII. Isolation					
	Choose the correct combination					
	a) I, II, V, VII and VI		b) II, VI, IV, III and V			
	c) III. IV. V. VII and II		d) I. II. III. IV. V. VI and	VII		

6.	Jurassic period of the Mesozoic era is characterized by a) Gymnosperms are dominant plants and first birds appear b) Radiation of reptiles and origin of mammals like reptiles c) Dinosaurs become extinct and angiosperms appear d) Flowering plants and first dinosaurs appear						
7.	Blood groups-A and B are a) Monkeys	found in b) Apes	c) Dogs	d) Cats			
8.	An organism which is the a) Bacteria	connecting link betweer b) Cyanobacteria	the animals and plants is c) <i>Euglena</i>	d) <i>Amoeba</i>			
9.	organs shows adapt Complete the given staten a) Homologous		e option given below c) Progressive organs	d) Similar in structure			
10.	Identify the phenomenon the excessive change in that a) Founder effect	<del>=</del>	pulation is formed the set o	of existing population due t d) None of the above			
11.	Age of gymnosperm is a) Cenozoic era	b) Mesozoic era	c) Palaeozoic era	d) Proterozoic era			
12.	Which of the following example of variation is not important from an evolutionary standpoint?  a) Genetic differences between individual organisms comprising the population  b) Inherited difference between individual organisms comprising the population  c) Both (a) and (b)  d) Difference due to diet, health, age and accident that have no affect on an individual's ability to survivand reproduce						
13.	Organs which are anatom a) Analogous organs	ically different, but perfo b) Homologous organ	orms similar functions are c c) Vestigial organs	alled d) Heterologous organs			
14.	Coacervates are a) Protobionts having polysaccharide, protein and $H_2O$ b) Protein aggregate c) Protein and lipid aggregates d) None of the above						
15.	The primates nearest to h a) New world monkeys	umans in the evolutiona b) Apes	ry line is c) Lemurs	d) Echidna			

16.	Primitive man was originated during					
	a) Miocene	b) Holocene	c) Pleistocene	d) Pliocene		
17.	Survival of the fittest is the basic principle of a competition. Its importance in organic evolution was explained by					
	a) Lamarck	b) de Vries	c) Darwin	d) Mendel		
18.	<ul><li>Which of the following is an example of an ancestral homology?</li><li>a) Almost all modern reptiles, birds and mammals have forelimbs, a trait they also share with contemporary amphibians</li><li>b) The first birds and all their descendant species have feathers, a trait that is unknown in any other group c) Humans and many insect species have eyes</li><li>d) All of the above</li></ul>					
19.	Swan-necked flask experiment proved					
	a) Biogenesis	b) Abiogenesis	c) Gene therapy	d) Both (a) and (b)		
20.	Industrial melanism was highlighted by					
	a) Mimosa pudica	b) Triticum aestivum	c) Biston betularia	d) Rock python		