EXERCISE

1. Primitive atmosphere was made up of the mixture of: (1) Oxygen, ammonia, methane, water (2) Hydrogen, ammonia, methane, oxygen (3) Hydrogen, steam, methane, ammonia (4) Oxygen, methane, water, nickle 2. Which compounds were formed in the direction of the origin of life: (1) Urea, nucleic-acid (2) Urea, amino-acid (3) Proteins, nucleic-acid (4) Protein, amino-acid 3. What is most important for origin of life: (1) Carbon (2) Oxygen (3) Water (4) Nitrogen 4. Pasteur succeeded in disproving the theory of spontaneous generation because: (1) The laboratory was clean (2) He pulled out the neck of flask into a tube (3) He was lucky (4) Yeast used in flask were dead 5. Oxygen in atmosphere has been formed by: (1) Evaporation of water (2) Photosynthesis of blue green algae (3) Metabolism of microorganisms (4) Decaying organisms 6. Who called larger colloidal particles of primitive sea as coacervates: (1) Fox (2) Oparin (4) Haldane (3) Empedocles 7. Who called water of primitive sea as pre biotic soup: (1) Haldane (2) Oparin (3) Fox (4) Huxley 8. Oparin's theory is based on: (1) Artificial synthesis (2) Spontaneous generation (3) God's will (4) All 9. Which biologist gave most logical biochemical theory of origin of life? (1) Urey (2) Oparin

(3) Stanley Miller

(4) Haeckel

10. During the course of origin of life what was the sequence of substances which appeared on earth: (1) Water, oxygen, nucleic acids, enzymes (2) Amino acids, ammonia, phosphates, nucleic acids (3) Glucose, amino acids, nucleic acids, proteins (4) Ammonia, Amino acids, proteins, nucleic acids 11. It is believed that the first organisms which inhabitated earth's surface were . (1) Autotrophs (2) Mixotrophs (3) Heterotrophs (4) Chromatotrophs Who did an experiment to prove that "The organic 12. compounds were the basis of life"? (1) Darwin (2) Stanley Miller and Harold C. Urey (3) Melvin (4) Fox Due to discovery of which of the following in 1980, **13**. the evolution was termed as RNA world: (1) m - RNA, t - RNA, r - RNA synthesise proteins (2) In some virus RNA is genetic material (3) RNA has enzymatic property (4) RNA is not found in all cells Which of the following is favorite idea of 14. astronomers (1) Special creaction theory (2) Cosmic panspermia (3) Biogensis (4) Abiogensis **15**. During chemical evolution, key biological compounds were synthesised :-(1) in the atomosphere (2) along the ocean shore (3) in the ocean (4) none of the above Big bang theory was proposed by: **16**.

(2) Miller

(4) Darwin

(1) Kant

(3) Lemaitre

17.		ed an experiment to prove	25.	Who was the first to explain recapitulation theory :				
	the origin of life. They too with:	ok gases NH ₃ and H ₂ along		(1) Weismann	(2) Haeckel			
	(1) N_2 and H_2O	(2) H ₂ O and CH ₄		(3) Darwin	(4) Malthus			
	(3) CH_4 and N_2	(4) CO_2 and NH_3	26.	Connecting link between protozoa and one-cell				
18.	Abiogenesis is the :	(-/ - 2 - 2		plants is :				
	(1) origin of life from no	on-living material		(1) Paramecium				
	(2) origin of life from liv	-		(2) Euglena				
	(3) origin of viruses and			(3) Amoeba				
	(4) none		27.	(4) Trypanosoma				
19.	Which is vestigial organ i	n man :		Connecting link between annelida and mollusca:				
	(1) Pinna	(2) Pinna muscles		(1) Cuttle fish	(2) Octopus			
	(3) Ileum	(4) Teeth		(3) Neopilina	(4) Nautilus			
20.	Which of the following se	et in <mark>man includ</mark> es vestigial			sets do not have homolo-			
	organs:			gous organs :	11			
	(1) Coccyx, vermiform a	ppendix and ear muscles	29 .	(1) Wings of mosquito an(2) Wings of butterfly and				
	(2) Body hair, atlas verte	bra and ear muscles						
	(3) Coccyx, wisdom tooth	h and patella		(3) Mouth parts of cockroach and butter fly (4) None of them				
	(4) Body hair, cochlea,	vermiform appendix and			and bat are example of :			
21.	tongue.			(1) Vestigial organs	(2) Analogous organs			
	Peripatus is connecting li			(3) Homologous organs	(4) Exoskeleton			
	(1) Mollusca and Arthrop			Homology is exhibited by :				
	(2) Flat worms and annel			(1) Wings of butterfly, birds and bat				
	(3) Annelida and Arthrop				arm of horse and forelimbs			
	(4) Reptilia and Mamma			of man				
22 .	According to Haeckel's b		31. 32.	(3) Tail of monkey and b	ird			
	-	dividual metazon shown		(4) Sting of scorpion and	honey bee			
	embryonic character			Golden age of Dinosaurs	s was during :			
	(2) Ontogeny repeats phy			(1) Cenozoic era	(2) Palaeozoic era			
	(3) Germplasm is immort			(3) Archeozoic era	(4) Mesozoic era			
0.0	(4) Every organisms is pr			Evolution of birds and m	ammals occured in :			
23.	organs:	g set has homologous		(1) Eocene and oligocene periods				
		ey and kangaroo and trunk		(2) Silurian and devonian periods				
	of elephant	ey and kangaroo and trunk		(3) Carboniferous and Permian periods				
	(2) Wings of insects, birds and bats			(4) Cretaceous and triassic periods				
	(3) Hind limbs of grassho		33.	The mesozoic era of earth is called the :				
		ach, mosquito and honey		(1) Age of amphibians				
	bee			(2) Age of armoured fish	es			
24.	Which of the following o			(3) Age of primitive man				
	(1) Pinna	(2) Wisdom tooth		(4) Age of ruling reptiles				
	(3) Fossa ovalis	(4) Ileum	l					

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34.	An era "age of birds and	mammals" is :	44.	Similarities in organisms with different genotype					
	(1) Mesozoic	(2) Palaeozoic		indicate :-					
	(3) Cenozoic	(4) Cretaceous		(1) Microevolution					
35 .	Origin of life took place i	n which of the following		(2) Macroevolution					
	era :			(3) Convergent evolution	ſ				
	(1) Mesozoic	(2) Palaeozoic		(4) Divergent evolution					
	(3) Precambrian	(4) Proterozoic	45.	Potato and sweet potato) :-				
36 .	Homologous organs are			(1) have edible parts whic	h are hamologous organs				
	(1) Dissimilar origin and o			(2) have edible parts which are analogous organs					
	(2) Dissimilar origin but si			(3) have been introduced in India from the same plates (4) are two species of the same genus					
	(3) Similar origin with similar origin with disa								
37.	(4) Similar origin with diss Human hand, wing of b		46.						
37.	represent	at and hipper of whale	10.	The first modern birds appeared during the :- (1) Cretaceous period (2) Jurassic period					
	(1) Analogous organs								
	(2) Vestigial organs			(3) Triassic period	(4) Carboniferous period				
	(3) Homologous organs		47.	Fossils are :					
	(4) Evolutionary organs			(1) animals living in burn					
38 .	Dinosaurs disappeared d	uring :		(2) remnants of extinct	animals and plants				
	(1) Jurassic (2) Triassic			(3) floating organisms					
	(3) Cretaceous	(4) Permian		(4) fast runners					
39 .	A connecting link between	en reptiles and birds is:	48.	The age of fossils is det	termined by:				
	(1) Archaeopteryx	(2) Platypus		(1) analysis of bones					
	(3) Java Ape man	(4) Whale		(2) radioactive c ¹⁴ dating					
40 .	Evolution of heart from or	ne to two, three and four		(3) electron microscopy					
	chambered proves :- (1) Biogenetic law of Ha	podral		(4) weighing the fossils					
	(2) Lamarckism	lecker	49.	Missing link in evolution is :					
	(3) Hardy weinberg's law	1		(1) Peripatus	(2) Limulus				
	(4) Neo Darwinism			(3) Pheretima	(4) Archaeopteryx				
41 .	Mammals like reptile ori	ginated in:-	50.	Convergent evolution of tw	o species is associated with:				
	(1) Jurassic	(2) Triassic		(1) analogous organs					
	(3) Cretaceous	(4) Permian		(2) recent common ancestor					
42 .	Which is not a vestigial or	gan in man-		(3) homologous organs					
	(1) Third molar			(4) different habitat					
	(2) Nails		51.						
	(3) Segmental muscles of	abdoman	"	but are different in fund					
	(4) Coccyx			(1) vestigial organs	(2) homologous organs				
43 .	Which evidence of evolut	ion is related to Darwin's		(3) analogous organs (4) homoplastic organs					
	finches -		52 .	Wings of insects and wings of birds are the examples					
	(1) Evidences from biogeo	-		of:					
	(2) Evidences from vestigeal organs (3) Evidences from embryology			(1) Analogy	(2) Homology				
	(4) Evidences from palaec			(3) Serology	(4) Mimicry				
	, -,		1	. ,					

53.	Archaeopteryx, a transicand reptiles was discorfollowing period:	vered from the	rocks of	62.	Which of the following is responsible for evolution according to Neo-Darwinism : (1) Mutation					
	(1) Jurassic	(2) Archeozoi	c era		(2) Natural selection					
	(3) Cretaceous	eous (4) Triassic			(3) Mutation and Natural	selection				
54.	Which of the following is not vestigial in man?				(4) Either (1) or (2)					
	(1) Tail vertebrae (2) Nails			63.	Which is the most important factor for evolution of					
	(3) Nictitating membrane (4) Vermiform appendix				new species :					
55.	Which one of the followir in <i>Homo sapiens</i> ?	ng is not a vestigia	l structure		(1) Geographic isolation(2) Extensive in-breeding(3) Extensive out-breeding(4) None					
	(1) Third molar	(2) Epiglottis		64.	Frequency of an allele in an isolated population					
	(3) Plica semilunaris	(4) Segmental	muscle		may change due to :-					
56 .	Flippers of seal are modified:			(1) Genetic drift	(2) Gene flow					
	(1) fins	(2) hindlimb			(3) Mutation	(4) Natural selection				
	(3) forelimb	(4) gills		65.	Some bacteria are able t	to grow in Streptomycin				
57 .	Darwin's finches are an	example of :			containing medium due to -					
	(1) Divergent evolution				(1) Natural selection					
	(2) Adaptive radiation				(2) Induced mutation	ition				
	(3) Allopatric speciation				(3) Reproductive isolation	n				
	(4) All of these				(4) Genetic drift					
58 .	Change with descent is the basis of which theory:			66.	Which of the following is important for speciation:					
	(1) Recapitulation theory				(1) Seasonal isolation					
	(2) Oparin's theory				(2) Reproductive isolation	n				
	(3) Theory of organic evolution				(3) Behavioural isolation					
	(4) Cell theory				(4) Tropical isolation					
59 .	Name of the scientist who gave Mutation Theory :				Genetic drift operates in :-					
	(1) Wallace (2) Malthus				(1) Small isolated population					
	(3) Darwin	(4) De V <mark>ries</mark>			(2) Large isolated population					
60.	Darwin's Theory of Natur		based on:		(3) Fast reproductive population					
	(1) Inheritance of acquired characters				(4) Slow reproductive population					
	(2) Mutation				De Vries gave his muta	•				
	(3) Enormous rate of reproduction in organisms, struggle for existence and survival of the fittest				evolution while working on – (1) Oenothera lamarckiana					
	(4) Changes due to the use and disuse of organs				(2) Drosophila melanoga					
61.	One of the revolutionar				(3) Pisum sativum					
	Charles Darwin's 'Origin of Species'. It deals with				(4) Althea rosea					
	(1) Gene mutation				Which of the following fac	ctors help in evalution but				
	(2) Use and disue of organs				is not considered as the b	-1 to				
	(3) Germplasm Theory	200			(1) Isolation	(2) Adaptation				
	(4) Natural selection leadin	ng to the survival of	the fittest		(3) Variation	(4) Mutation				

(3) Variation

(4) Mutation

EVOLUTION

(3) Sinanthropus

(4) Orangutan

Factors helps in the formation of new species are: **79**. Which character applies to *Homo sapiens*: (1) competition and variation (1) Opposable toe (2) isolation and competition (2) Large canine (3) competition and mutation (3) Cranial capacity 1450 cc (4) isolation and mutation (4) Chin prominence absent 71. The idea not related to the Darwinian evolutionary 80. Which of the following statement is correct: theory is: (1) Proconsul was ancestor of man and ape (1) survival of the best (2) Proconsul was ancestor of man and not of ape (2) struggle for existence (3) Apes were ancestor of man anatomically (3) inheritance of acquired characters (4) None of them (4) origin of species by natural selection 81. Most recent man found as fossil was: **72**. Coverstone of theory of Darwin was: (1) Java man (2) Peking man (1) natural selection (4) Hiedelberg man (3) Cro-magnon man (2) inheritance of acquired characters **82**. What was the cranial capacity of java man: (3) omnis cellulae e cellulae (2) 650 cc (1) 400 cc (4) higher productivity (4) 1450 cc (3) 900 cc**73**. The chance of elimination of genes from a small 83. Which fossil man had cranial capacity almost equal population is an example of: to modern man: (1) selection pressure (2) speciation (1) Australopithecus (2) Java ape man (3) adaptation (4) genetic drift (3) Neanderthal man (4) Peking man **74**. Struggle for existence and survival of the fittest 84. Largest cranial capacity was found in: theories were given by: (1) Peking man (2) Neanderthal man (1) Wallace (2) Darwin (3) Java man (4) Cro-magnon man (3) Lamarck (4) none of these 85. Cro-magnon man was: 75. Initiating force of evolution is: (1) herbivorous (2) frugivorous (1) Variation (2) Natural selection (4) omnivorous (3) carnivorous (3) Adaptation (4) Competition 86. Which of the following is the most primitive ancestor **76**. According to the Neo-Darwinian theory which of of man? the following is responsible for the origin of new (1) Homo habilis species? (2) Ramapithecus (1) Mutations only (3) Australopithecus (2) Useful variations and natural selection (3) Mutations together with natural selection (4) Homo neanderthalensis (4) Hybridization only 87. Homo habilis refers to: 77. Which of the following was not given by Darwin's (1) Wandering species (2) Ancient man theory of evolution? (4) Tool-maker (3) Modern man (1) Struggle for existence (2) Over production 88. Which of the following statement is true:-(3) Natural selection (4) Genetic drift (1) Homo erectus is direct ancestor of Homo sapiens **78.** Which primate is closest to man regarding organic (2) Neanderthal man is direct ancestor of modern man evolution: (3) Australopithecus is direct ancestor of modern man (1) Gibbon (2) Gorilla

(4) Fossils of Cromagnon man first found in Ethopia

- Which of the following is the closer relative of man:-89.
 - (1) Chimpanzee
- (2) Gorilla
- (3) Oranguttan
- (4) Gibbon
- 90 Which of the following is correct order of the evolutionary history of man:
 - (1) Peking man, *Homo sapiens*, Neanderthel man, Cromagnon man
 - (2) Peking man, Neanderthal man, Homo sapiens, Cromagnon man
 - (3) Peking man, Heidelberg man, Neanderthal man, Cromagnon man
 - (4) Peking man, Neanderthal man, Homo sapiens, Heidelberg man
- 91. According to fossils which are discovered up to present time, origin and evolution of man was started from which country:
 - (1) France (2) Java
- (3) Africa
 - (4) China
- 92. The banding pattern of chromosomes of 3 and 6 of human beings and chimpanzee shows that they had:
 - (1) common origin
 - (2) different origin
 - (3) same number of chromosomes
 - (4) similar blood groups

- 93. Which of the following ancestor of man was fond of painting and weapons making:
 - (1) Neanderthal man
 - (2) Cromagnon man
 - (3) Java man
 - (4) Peking man
- 94. The scientific name of *Homo erectus erectus* has been given to:
 - (1) Cromagnon man
- (2) Neanderthal man
- (3) Java ape man
- (4) Peking man
- 95. Closest ancestor to modern man was:
 - (1) Neanderthal man
 - (2) Homo habilis
 - (3) Cro-magnon man
 - (4) Australopithecus
- 96. The cranial capacity of Peking man was about:
 - (1) 900 cc
- (2) 1660 cc
- (3) 1075 cc
- (4) 1450 cc
- 97. Ancestor of man who first stood erect was:
 - (1) Australopithecus
- (2) Cro-magnon man
- (3) Java man
- (4) Peking man

ANSWER KEY

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	3	3	3	2	2	2	1	1	2	4	3	2	3	2	3
Que.	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Ans.	3	2	1	2	1	3	2	4	2	2	2	3	2	2	2
Que.	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
Ans.	4	4	4	3	3	3	3	3	1	1	4	2	1	3	2
Que.	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Ans.	1	2	2	4	1	2	1	1	2	2	3	4	3	4	3
Que.	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Ans.	4	3	1	1	1	2	1	1	2	4	3	1	4	2	1
Que.	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
Ans.	3	4	3	3	1	3	3	3	4	4	2	4	1	1	3
Que.	91	92	93	94	95	96	97								
Ans.	3	1	2	3	3	3	1								