4. Analogous organs arise due to: (NCERT Exemplar) (a) genetic drift (b) artificial selection (c) divergent evolution (d) convergent evolution 5.  $(p+q)^2 = p^2 + 2pq + q^2 = 1$  represents an equation (NCERT Exemplar) used in: (a) biometrics (b) population genetics (c) Mendelian genetics (d) molecular genetics 6. Appearance of antibiotic-resistant bacteria is an example (NCERT Exemplar) (a) transduction (b) adaptive radiation (c) divergent evolution (d) pre-existing variation in the population 7. Evolution of life shows that life forms had a trend of moving from: (NCERT Exemplar) (a) land to water (b) water to land (c) dryland to wet land (d) fresh water to sea water **8.** Viviparity is considered to be more evolved because: (NCERT Exemplar) (a) the young ones are left on their own. (b) the embryo takes a long time to develop. (c) the young ones are protected by a thick shell. (d) the young ones are protected inside the mother's body and are looked after they are born leading to more chances of survival. 9. Fossils are generally found in: (NCERT Exemplar) (a) Igneous rocks (b) Any type of rock (c) Sedimentary rocks (d) Metamorphic rocks 10. Which type of selection is industrial melanism observed in moth, Biston bitularia: (NCERT Exemplar) (a) Artificial (b) Stabilising (c) Directional (d) Disruptive The most accepted line of descent in human evolution is: (NCERT Exemplar) (a) Homo erectus  $\rightarrow$  Homo habilis  $\rightarrow$  Homo sapiens (b) Ramapithecus  $\rightarrow$  Homo habilis  $\rightarrow$  Homo erectus  $\rightarrow$ Homo sapiens (c) Australopithecus  $\rightarrow$  Ramapithecus  $\rightarrow$  Homo sapiens → Homo habilis (d) Australopithecus → Ramapithecus → Homo erectus  $\rightarrow$  Homo habilis  $\rightarrow$  Homo sapiens In 1953 S. L. Miller created primitive Earth conditions in the laboratory and gave experimental evidence for origin of first form of life from pre-existing non-living organic molecules. The primitive Earth conditions created include: (NCERT Exemplar) (a) low temperature, volcanic storms, atmosphere rich in oxygen temperature, volcanic (b) low storms, reducing atmosphere (c) high temperature, volcanic storms, non-reducing atmosphere temperature, volcanic storms, (d) high reducing atmosphere containing CH<sub>4</sub>, NH<sub>3</sub>, etc.

13. Variations during mutations of meiotic recombinations (a) random and small (b) random and directional (c) random and directionless (d) random, small and directional 14. In the origin of life, microspheres are most primitive protobiont, which have a membrane of: (DPMT 2008) (b) lipid (d) lipid and proteins (a) fats (c) carbohydrates Transformation of the early reducing atmosphere of the Earth into an oxidizing atmosphere was mainly due to the (Karnataka CET 2008) activities of: (a) anaerobic heterotrophs (b) aerobic photo synthesizers (c) anaerobic photosynthesizers (d) anaerobic chemoheterotrophs Connecting link between Echinodermata and Chordata (VMMC-Safdarjung 2008) (b) Archaeopteryx (a) Peripatus (d) None of these (c) Balanoglossus Industrial melanism was highlighted by: (Kerala PMT 2008) (b) Rock python (a) Polar bear (d) Biston betularia (c) Mimosa pudica (e) Triticum aestivum 18. An evolutionary process, giving rise to new species adapting to new habitats and ways of life is called: (DPMT 2008; VITEEE 2008) (b) microevolution (a) adaptation (d) convergent evolution (c) adaptive radiation Sweet potato and potato are examples of: (DPMT 2008) 19. (b) analogous structures (a) homologous structures (d) none of these (c) both (a) and (b) Appearance of teeth in the embryos of birds is (VMMC-Safdarjung 2008) example of: (a) atavism (b) speciation (c) vestigial organs (d) ontogeny repeats phylogeny The theory of pangenesis was rejected due to the (DPMT 2008) acceptance of: (a) Richter theory of cosmozoic (b) Cuvier theory of catastropism (c) Weismann theory of germplasm (d) Spallanzani theory of biogenesis 22. The principle that gives the geneticists a tool to determine when evolution is occurring is: (VITEEE 2008) (a) Hardy-Weinberg principle (b) Chemiosmotic theory (c) Malthusian principle (d) Cloning theory Which of the following defines Hardy-Weinberg's law? (DPMT 2008). (b)  $p^2 + 2pq + q^2 = 1$ (a)  $p^2 + 3pq + q^2 = 1$ (c)  $p^2 + 2pq + q^2 = 0$ (d)  $q^2 + p^2 + 2pq = 0$ 

7.	4. Hardy - Weinberg equilibrium gene flow, genetic drift, muta	n is known to be acc
-	gene flow, genetic drift, muta	ition, genetic regards
	Chris	THE STREET STREET STREET
	(a) saltation	
	(c) limiting factors	(d) natural selection
	(e) over production	
35	5. Transfer of genes from one ge	one pool to another in the
20		(RV Propagation)
	(a) mutation	(b) gene flow
		(d) genetic drift
26	in the Commission of the	e British math
20	resistance in mosquitoes are	cited as expended and DDT
	1 de la constante de la consta	(Karnotal Comments)
	(a) Genetic drift	(Karnataka CET 2008)
		(b) Point mutation
27		(d) Arrival of the fittest
21	expresses:	rarying different in trait
		(Odisha JEE 2008)
		(b) divergent evolution
•••		(d) none of these
28.	. Which is not a pre-zygotic is	
		(VITEEE 2008)
		(b) seasonal isolation
	(c) ecological isolation (	(d) geographical isolation
29.	. Which one does not co	nfirm to the theory of
	"Biogenesis"?	(JKCMEE 2009)
	(a) Spallanzani's experiment	eval to gumentone (c)
	(b) Louis Pasteur's experime	
	(c) Von Helmont's experime	nt walky stated in the state was
	(d) Francisco Redi's experim	ent
30.	. Miller-Urey's experiment m	nixture had the following
	except:	(JKCMEE 2009)
	(a) methane	(b) CO <sub>2</sub>
	(c) hydrogen (	(d) water vapour
31.	Peripatus is a connecting link	between: (AIPMT 2009)
	(a) Coelenterata and Porifera	
	(b) Annelida and Arthropoda	
	(c) Mollusca and Echinodern	
	(d) Ctenophora and Platyhelr	
32.	In the case of peppered me	
	black-coloured form beca	
	light-coloured form in E	
	revolution. This is an example	
	(a) inheritance of darker color	ur character acquired due to
	the darker environment	
	(b) appearance of the darker	coloured individuals due to
	very poor sunlight	
	(c) natural selection whereb	by the darker forms were
		, ,
	selected	
2	(d) protective mimicry	. 111
3.	11/1 1 2 1 2 1 1 1 1 1	aconnecting link between
	which of the following is a	a connecting that come
	mammals and reptiles?	(AFMC 2009)
	mammals and reptiles? (a) Perinatus	b) Balanoglossus
	mammals and reptiles? (a) Perinatus	(AFMC 2009)

34.	Darwin's finches provide and of evolution. The evidences	come from the field of:				
		(AFMC 2009)				
		(b) embryology				
35	(c) palaeontology	(d) biogeography				
33.	Haeckel's biogenetic law is:	(CPMT 2009)				
	(a) every organism is produc	ded by its parents				
	<ul><li>(b) ontogeny repeats phyloge</li><li>(c) phylogeny repeats ontogen</li></ul>	eny				
	(d) reproductive isolation	eny				
36.	Origin of first toothed birds a	and ovmnosperms took place				
	during:	(CPMT 2009)				
	( ) = :	(b) Jurassic				
	(c) Permian	(d) Cretaceous				
37.	A living connecting link w	which provides evidence for				
	organic evolution is:	(CPMT 2009)				
	(a) Sphenodon between rept	iles and birds				
	(b) Lung fishes between pisc					
	(c) Archaeopteryx between					
20	(d) duck billed platypus between					
38.	Darwin judged the fitness of					
		(DUMET 2009)				
	(a) Number of offspring					
	(b) Ability to defend itself					
	(c) Strategy to obtain food	nonmino resol dimenon				
0.0	(d) Dominance over other in					
39.	Which one of the following	periods is largely associated				
		and the increase in flowering				
	plants and reptiles?	(DUMET 2009)				
	(a) Jurassic	(b) Triassic				
	(c) Cretaceous	(d) Permian				
40.		ample of: (DUMET 2009)				
	(a) Drug resistance	Pleistreene neue M.				
	(b) Darkening of skin due to	o industries				
	(c) Protective resemblance	with the surrounding				
	(d) Defensive adaptation of	skin against UV radiations				
41.	Tachyglossus is a connecting	ng link between:				
		(DUMET 2009)				
	(a) Reptiles and Birds					
	(b) Birds and Mammals					
	(c) Amphibians and Reptile	es				
	(d) Reptiles and Mammals					
12.	Which one of the follow	ving was not explained by				
	Darwinism?	(JKCMEE 2009)				
	(a) natural selection	(b) origin of species				
	(c) arrival of the fittest	(d) struggle for existence				
12	Drawinism explains all the	following except:				
13.	Diawinishi explains an the	(Karnataka CET 2009)				
	() CC : :11 1 - ++ - + + + + + + + + + + + + + +	its that overcome competition				
	(a) offspring with better tra	its that overcome competition				
	are best suited for the e	nvironinent.				
	(b) variations are inherite	d from parents to offspring				
	through genes.					
	( ) 11: 1 -ing the	ere are variations.				
	(d) arganisms tend to produ	uce more number of offspring				
	(a) organisms tend to produ	dens how the designation (2)				
	than can survive.					

44	. Who was the first to discard	the idea of fixity of species?
	Most sirent annual sunna most	(Kerala PMT 2009)
	(a) Robert Hooke	(b) Stanley Cohen
	(c) Charles Darwin	(d) William Harvey
15	<ul><li>(e) Jean Baptiste Lamarck</li><li>Which one of these is not a</li></ul>	case of artificial selection?
40	. Which one of these is not a	(Kerala PMT 2009)
	(a) Broccoli	(b) Shetland pony
	(c) Great dane dog	(d) Peppered moth
	(e) Arabian race horse	
46		t during:
	ME THE SHAPE	(Kerala PMT 2009)
	(a) silurian	(b) jurassic
	(c) cambrian	(d) ordovician
	(e) carboniferous	
47.	. Whose bicentenary is the y	ear 2009?
		(Odisha JEE 2009)
	(a) Darwin	(b) Edward Jenner
	(c) Stanley Miller	(d) T.H. Morgan
48.		rly explain the theory of
	evolution due to lack of:	(Odisha JEE 2009)
	(a) evidences	(b) variations (d) genetics
10	(c) speciation	
49.	haminid fassil commonly	reserved and most complete known as 'Lucy' belongs to
	the genus:	(AMU 2009)
	(a) Oreopithecus	
	(c) Pithecanthropus	(d) Australopithecus
50.	On the basis of hereditary i	material most closest relative
	of man is:	(CPMT 2009)
	(a) gorilla	(b) gibbon
	(c) orang-utan	(d) chimpanzee
51.	The prehistoric man which	ch lived on Earth during
	Pleistocene period:	(CPMT 2009)
	(a) Atlantic man	(b) Neanderthal man
	(c) Australopithecus	(d) Cro-Magnon man
52.	The chronological order of	human evolution from early
	to the recent is:	(JKCMEE 2009)
	(a) Ramapithecus $\rightarrow$ Austra	$alopithecus \rightarrow Homo\ habilis$
	→ Homo erectus	
	(b) Australopithecus $\rightarrow$ Rai	mapithecus $\rightarrow$ Homo habilis
	→ Homo erectus	
	(c) Pithecanthropus pekin	ensis $\rightarrow$ Homo habilis $\rightarrow$
	Homo erectus	, and the state of
	(d) Australopithecus –	Ramanithecus -
	Pithecanthropus pekine	$\rightarrow$ Ramaplinecus $\rightarrow$
53.	Which one of the following	g ancestors of man first time
000	showed bipedal movement?	
	(a) Java apeman	( 2 322 200))
	(c) Australopithecus	0
54.	In the early Earth water on	(d) Cro-magnon man d CO <sub>2</sub> were produced by the
	combination of O	
	combination of O <sub>2</sub> with:	(Kerala PMT 2010)
	(a) hydrogen	(b) organic matter
	(c) hydrogen sulphide	(d) sulphates and nitrates
	(e) ammonium and methano	e synvisor actions
		5

	ANO.								
1. (d)	2. (a)	3. (a)	4 (1)	ANSV	VERS				
11. (b)	12. (d)	13. (c)	4. (d)	5. (b)	6. (d)	7. (b)	8. (d)	9. (c)	10. (c)
21. (c)	22. (a)	23. (b)	14. (d)	15. (b)	16. (c)	17. (d)	18. (c)	19. (b)	20. (d)
31. (b)	32. (c)		24. (d)	25. (b)	26. (c)	27. (c)	28. (a)	29. (c)	30. (b)
		33. (c)	34. (d)	35. (b)	36. (b)	37. (d)	38. (a)	39. (c)	40. (c)
41. (d)	42. (c)	43. (b)	44. (e)	45. (d)	46. (e)	47. (a)	48. (d)	49. (d)	50. (d)
51. (b)	<b>52.</b> (a)	53. (c)	54. (e)	55. (b)	56. (a)	57. (c)	58. (d)	59. (b)	60. (b)