ENVIRONMENTAL SCIENCE

- The second stage of evolution of different components of earth as described by Chamberlain denotes:
 - (a) the period of planetesimal accession
 - (b) the actual geological period
 - (c) the period of dominant vulcanism
 - (d) none of the above
- Which one of the following does not pertain to scientific concept in the origin of solar system and earth?
 - (a) dihybrid concept
 - (b) trihybrid concept
 - (c) monistic concept
 - (d) dualistic concept
- Laterite soils are composed of :
 - (a) little clay and much gravel of red sand stones
 - (b) organic material, much clay and iron
 - (c) large proportion of decomposed mineral grains
 - (d) none of the above
- 4. Regur soils occur mainly in :
 - (a) Maharashtra, Western Madhya Pradesh and Gujarat
 - (b) Tamil Nadu, Karnataka and Andhra Pradesh
 - (c) Orissa, Jharkhand and Andhra Pradesh
 - (d) None of the above
- Soil erosion is a serious problem in :
 - (a) hills
 - (b) arid areas
 - (c) semi-arid areas
 - (d) all of the above

6.	Soil	erosion has been called as creeping death of soil by :
	(a)	Raw
	(b)	Burges
	(c)	van der Drift
	(d)	Rama Rao
7.	Exfo	liation weathering is also known as:
	(a)	spalling
	(b)	sheeting
	(c)	onion weathering
	(d)	isolation weathering
8.	The	frequency of rock falls depends on :
	(a)	aridity humidity factor
	(b)	lithological and structural characteristics of rock
	(c)	both (a) and (b)
	(d)	none of the above
9.	Whie	ch one of the following statements is not correct?
	(a)	Himalayan rivers perform intense erosional activity
	(b)	Himalayan rivers are perennial
	(c)	Himalayan rivers flow through shallow valleys
	(d)	Himalayan rivers have made spectacular gorges
10.	The	drainage basin of river Krishna is shared by :
	(a)	Maharashtra, Karnataka and Andhara Pradesh
	(b)	Kerala, Karnataka and Tamil Nadu
	(c)	Maharashtra, Gujarat and Madhya Pradesh
	(d)	Maharashtra, Orissa and Jharkhand
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11.	Popu	lation growth rate by 1990's was decreasing in most of the countries		
		the decline was greatest in:		
	(a)	India		
	(b)	China		
	(c)	Indonesia		
	(d)	USA		
12.	Over	population is a situation when :		
	(a)	there is a large size of population		
	(b)	resources are few		
	(c)	resources are too few for the size of the population		
	(g)	population in a country grows rapidly		
13.	In India the total in-situ reserves of Bauxite as on 1st, April 2000 are :			
	(a)	1075 million tonnes		
	(b)	2050 million tonnes		
	(c)	3075 million tonnes		
	(d)	4050 million tonnes		
14.	Koyna hydro power project is in:			
	(a)	Maharashtra		
	(b)	Tamil Nadu		
	(c)	Karnataka		
	(d)	Kerala		
15 .	Occu	rrence of dry Gas has been reported in Kashmir Division by :		
	(a)	Oil and Natural Gas Commission		
	(b)	Natural Gas Commission		
	(c)	Commission for Natural Gas and Oil		
	(d)	Oil and Natural Gas Committee		
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16.	In F	Kashmir Division galena deposits have been reported from :
	(a)	Sumbhar [Anantnag]
	(b)	Lashtial [Baramula]
	(c)	Wuyan [Srinagar]
	(d)	None of the above
17.		en two solutions differ from each other by 1 pH unit it means that one
		tion has :
	(a)	5 times the hydrogen ion concentration of the other
	(p)	10 times the hydrogen ion concentration of the other
	(c)	50 times the hydrogen ion concentration of the other
	(d)	100 times the hydrogen ion concentration of the other
18.	In v	inpolluted region the pH of rain water is:
	(a)	6.7
	(b)	7.0
	(c)	5.6
	(d)	6.5
19.	Iodi	ne requirement for an adult human is :
	(a)	50 μg
	(b)	100 μg
	(c)	150 µg
	(d)	200 рд
20.	Whi	ich of the following elements is not essential to all plants and animals?
	(a)	Sulphur
	(b)	Zinc
	(c)	Copper
	(d)	Barium
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		received a Nobel prize for formulating a polymeric structure for rubb 953 ?	er		
	(a)	Staudinger			
	(b)	Strausberger			
	(c)	Bohr			
	(d)	Gibbs			
22.		ulose fibres :			
	(a)	can be made to bent and twist			
	(b)	do not stretch much			
	(c)	both (a) and (b)			
8K	(d)	none of the above			
23.		oids are a class of hormones made from :			
NA.	(a)	amino acids			
	(b)	cholesterol			
	(c)	proteins			
	(d)	none of the above			
24.	A co	ompound that cannot be synthesized by a given organism but is vital	for		
	its survival or health is:				
	(a)	glycogen			
	(b)	protein			
	(c)	vitamin			
	(d)	lactose			
25.	Fra	nkia is associated with:			
	(a)	nitrification			
	(b)	denitrification			
	(c)	nitrogen fixation			
	(d)	ammonification			
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26.	Sed	imentary type of biogeochemical cycle is found in case of :			
	(a)	nitrogen			
	(b)	sulphur			
	(c)	carbon			
	(d)	oxygen			
27.	Hydrological cycle is driven by evaporative power of solar radiation which is approximatelyper cent of the total radiation reaching the oute atmosphere.				
	(a)	5			
	(b)	10			
	(c)	15			
	(d)	20			
28.	Larg	e store of water in polar ice caps has :			
	(a)	little effect on hydrological cycle			
	(b)	great effect on hydrological cycle			
	(c)	no effect on hydrological cycle			
	(d)	none of the above			
29.	Clinical lead poisoning occurs when blood lead levels rise to:				
		25 μg/dl			
	(b)	40 µg/dl			
3	(c)	60 μg/dl			
	(d)	80 μg/dl			
30.	To of	To obtain the Eco mark the maximum concentration of lead in tea leaves [according to BIS] should be :			
	(a)	<10 ppm			
	(b)	<6.5 ppm			
	(c)	<3.5 ppm			
	(d)	<4.8 ppm			
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	31.	Αι	useful drug that can cause severe errosive gastritis if taken with	
		(a)	paracetamol	alcono! :
		(b)	antihistamine	
		(c)	aspirin	
		(d)	none of the above	
	32.	The	antidote for paracetamol poisoning is :	
		(a)	penicillamine	
		(b)	deferrioxamine	
-30		(e)	N-acetylcysteine	
15		(d)	none of the above	
	33.	Acco	ording to Cosmozoic theory, life originated from :	
		(a)	spores of other planets	
		(b)	non-living organic matter	
		(c)	special creation	
		(d)	none of the above	
	34.	Hyp	othesis of Panspermia was propounded by :	
		(a)	Preyer	
		(b)	Ambarzumian	
		(e)	Arrhenius	
		(d)	Spallanzani	
	35.	Whe	n amount of NADP available is low:	82
		(a)	only pigment system I is active	
		(b)	only pigment system II is active	
		(c)	both pigment systems [I and II] are active	
		(d)	none of the above	
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36.	High carbon dioxide consumption point is found in :
	(a) C ₃ plants
	(b) C ₄ plants
	(c) CAM plants
	(d) lichens
37.	Rate of respiration increases:
	(a) at high CO ₂ concentration
	(b) at very high temperature
	(c) in well hydrated plants
	(d) in intense light
38.	For two molecules of glucose, glycolysis uses and produces ATP molecules :
	(a) 4 and 8
	(b) 2 and 4
	(c) 2 and 8
	(d) 2 and 2
39.	Type I restriction enzymes are :
	(a) non-specific in their cleavage
	(b) specific in their cleavage
	(c) suitable for gene manipulation
	(d) none of the above
40.	Pomato is a novel somatic hybrid formed by the fusion of protoplasts of :
	(a) pea and tomato
	(b) pea and potato
	(c) tomato and potato
	(d) carrot and potato
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(b) Bosewallia serrata (c) Sterculia urens (d) All of the above 42. Fish and sea fishes are rich sources of minerals especially: (a) calcium (b) potassium (c) sodium (d) magnesium 43. Ozone and PAN exert their biochemical effects by producing: (a) carbonium (b) free radicals	
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(a) carbonium	
(h) froe radicals	
(B) Hee radicals	
(c) H ⁺ ion	
(d) Ozonides	
44. Acrolein, an air pollutant is a type of :	
(a) aldehyde	
(b) ketone	
(c) paraffin	
(d) olefin	
45. In oligotrophic lakes and water bodies, there is :	
(a) excessive growth of algae	
(b) depletion of dissolved oxygen	
(c) nutrient enrichment	
(d) none of the above	
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Gum is obtained from:

41.

- 46. If too much organic matter is added to water, :
 - (a) all available oxygen will be used up
 - (b) fishes and other forms of aquatic life will die
 - (c) anaerobic bacteria will begin to breakdown the waste
 - (d) all of the above
- 47. Cork from oak tree is one of the best ecologically friendly resource as :
 - (a) cork is harvested by peeling layers of trees
 - (b) removing cork helps it grow better
 - (c) cork is not harvested by cutting down the trees
 - (d) none of the above
- 48. Wind power, a non-polluting energy, is used in:
 - (a) remote power
 - (b) hybrid system .
 - (c) both (a) and (b)
 - (d) none of the above
- 49. In the mountains of South-west China the population of Giant Panda is as few as:
 - (a): 500
 - (b) 1000
 - (c) 1500
 - (d) 1800
- 50. According to Final Technical Report of National Biodiversity Strategy and Action Plan, India has lost:
 - (a) over 50 per cent of its forest cover and 40 per cent of its mangroves .
 - (b) over 40 per cent of its forest cover and 50 per cent of its mangroves
 - (c) over 30 per cent of its forest cover and 70 per cent of its mangroves
 - (d) over 70 per cent of its forest cover and 30 per cent of its mangroves

51.	The	helminth parasite which inhabits the lymph vessels is:
	(a)	Ascaris
	`(b)	Wuchereria
	(c)	Enterobius
	(d)	Ancylostoma
52.	Pyor	Thoea caused by Entamoeba gingivalis is transmitted by :
	(a)	flies
	(b)	kissing
	(c)	air
	(d)	mosquito bite
53.	Mad worl	agascar and Mauritius are included in which zoogeographic region of the d ?
88	(a)	Neotropical region
	(b)	Neoarctic region
	(c)	Ethiopian region
	(d)	Oriental region
54 .	Vert	tical distribution of life in aquatic habitats is referred to as:
	(a)	bathymetric distribution
	(b)	altitudinal distribution
	(c)	both (a) and (b)
	(d)	none of the above
55.	'Sup	perbug' was created, to mop up all types of hydrocarbons in the oil, from
	diffe	erent strains of :
	(a)	Bacillus
	(b)	Pseudomonas
	(c)	Clostridium
	(d)	Azotobacter

56 .	Thio	bacillus bacteria can accumulate which metal, for reuse from waste waters		
	and	industrial sites ?		
	(a)	copper		
	(b)	silver		
	(c)	aluminium		
	(d)	none of the above		
57 .	Squa	are of standard deviation is termed as :		
	(a)	variance		
	(b)	quartiles		
	(c)	percentiles		
	(d)	root mean square deviation		
58.	The statistical method which helps us to estimate or predict the unknown			
	valu	e of one variable from the known value of the related variable is called :		
	(a)	correlation		
	(b)	scatter diagram		
	(c)	regression		
	(d)	dispersion		
59 .	When a mean deviation is divided by the average used in finding out the			
	mear	n deviation itself, the resulting quantity is described as the :		
	(a)	coefficient of mean deviation		
	(b)	coefficient of standard deviation		
	(c)	coefficient of variance		
	(d)	none of the above		
60.	Corr	elation studies can be represented by :		
	(a)	scatter diagram		
	(b)	correlation graph		
375	(c)	both (a) and (b)		
	(d)	none of the above		
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