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	STD: XII	BIOLOGY	SET-5	(B L-6,Z L-	-5,11)	MARKS-50
Sheple	I.CHOOSE THE COR	RECT ANSWER :			35X1=35	
1. 0	Groundnut is native of					
0.0	, , ,	b) India	c) North A	,	Brazil	
2.D	esired improved variety of	3	•	3	i a fa whill a a wa	
3. T	a) Natural SelectionThe plants which are growna) Sesbania and Acacic) Clitoria and Begoni	a b) Solenum and Crota	alaria	n a) b	iofertilisers	
4. E	cosystem consists of				•	
	a) decomposers	b) producers	C) (consumers	d) all of th	e above
	/hich of the following are		•			
i) G	enetic resources ii) Recrea		•		_	ation
	a) i and iiiead the given statements a	b) ii and iv	c) i and ii	a)ı	and iv	
	ulose. iii) Capillary water is	the only water available blant have more total cl	e to plant roc hlorophyll p	ots as it is present	t inside the mid	cropores. f chl a and chl b are
7. I	n soil water available for p					
0.14	_	b) chemically bound v	water c)	capillary water d) hygroscopic	water
8.۷\	/hich of the following statera) Agar is not extracted from		s coavvoods			
	b) Callus undergoes differ			orvoids.		
	c) Surface sterilization of			3		
	d) P^H of the culture medium					
9.S€	elect the incorrect statement	-	Dielkelle er			
	a) A tonic used for cardiacb) Medicine used to treat			•		
	c) An anti malarial drug is	•		-		
	d) Anti-cancinogenic prop	oerty is not seen in Cath	naranthus ro	seus.		
10.\	/irus free plants are develop	oed from				
	a) Organ culture	b) Meristem culture	c) Protopla	st culture d) Cel	l suspension cu	ulture
11.	Consider the following sta	itements:				

which deals with the manipulation of genetic materials by man invitro

I. Recombinant DNA technology is popularly known as genetic engineering is a stream of biotechnology

II. pBR322 is the first artificial cloning vector developed in 1977 by Boliver and Rodriguez from E.coli plasmid						
III. Restriction enzymes belongs to a class of enzymes called nucleases. Choose the correct option regarding above statements						
a. I & II b. I & III c. II & III d. I,II & III 12. Which one of the following palindromic base sequence in DNA can be easily cut at about the middle by some particular restriction enzymes?						
a. 5 CGTTCG 3 3 ATCGTA 5 b. 5 GATATG 3 3 CTACTA 5 c. 5 GAATTC 3 3 CTTAAG 5 d. 5 CACGTA 3 3 CTCAGT 5						
13.If haploid number in a cell is 18. The double monosomic and trisomic number will be						
a) 35 and 37 b) 34 and 35 c) 37 and 35 d) 17 and 19 14. Test cross involves a) Crossing between two genotypes with recessive trait						
b) Crossing between two genotypes with recessive trait						
c) Crossing the F ₁ hybrid with a double recessive genotype						
d) Crossing between two genotypes with dominant trait						
15. Transmitting tissue is found in						
a) Micropylar region of ovule b) Pollen tube wall						
c) Stylar region of gynoecium d) Integument 16. Animals giving birth to young ones:						
a) Oviparous b) Oviviviparous c) Viviparous d) Both a and b						
17. The Androgen Binding Protein (ABP) is produced by						
a. Leydig cells b. Hypothalamus c. Sertoli cells d.Pituitary gland						
18. Identify the correct statements from the following						
(a) Chlamydiasis is a viral disease.						
(b) Gonorrhoea is caused by a spirochaete bacterium, <i>Treponema palladium</i> .						
(c) The incubation period for syphilis is is 2 to 14 days in males and 7 to 21 days in females.						
(d) Both syphilis and gonorrhoea are easily cured with antibiotics.						
19. If the childs blood group is 'O' and fathers blood group is 'A' and mother's blood group is 'B' the genotype of the parents will be						
a) IA IA and IB Io b) IA Io and IB Io c) IA Io and Io						
20.XO type of sex determination and XY type of sex determination are examples of a) Male heterogamety b) Female heterogamety						
c) Male homogamety d) Both (b) and (c)						
21. In an accident there is great loss of blood and there is no time to analyse the blood group which blood can be						
safely transferred?						
a) 'O' and Rh negative b) 'O' and Rh positive c)'B' and Rh negative d) 'AB' and Rh positive						
22. Hershey and Chase experiment with bacteriophage showed that						
a) Protein gets into the bacterial cells b) DNA is the genetic material						
c) DNA contains radioactive sulphur d) Viruses undergo transformation						
23. DNA and RNA are similar with respect to						
a) Thymine as a nitrogen base b) A single-stranded helix shape						
c) Nucleotide containing sugars, nitrogen bases and phosphates						

d) The same sequence of nucleotides for the amino acid phenyl alanine
24. The wings of birds and butterflies is an example of a) Adaptive radiation b) convergent evolution c) divergent evolution d) variation
25.AIDS virus has
a) Single stranded RNA b) Double stranded RNA c) Single stranded DNA d) Double stranded DNA
26. Which of the following pair is correctly matched for the product produced by them?
a) Acetobacter aceti - Antibiotics b) Methanobacterium - Lactic acid
c) Penicilium notatum - Acetic acid d) Saccharomyces cerevisiae - Ethanol
27. Dolly, the sheep was obtained by a technique known as
a) Cloning by gene transferb) Cloning without the help of gametesc) Cloning by tissue culture of somatic cellsd) Cloning by nuclear transfer.
28. What type of human population is represented by the following age pyramid?
a) Vanishing population
b) Stable population
c) Declining population
d) Expanding population
29. Who introduced the term biodiversity?
a) Edward Wilson b) Walter Rosen c) Norman Myers d) Alice Norman
30. Which of the following forests is known as the lungs of the planet earth?
a)Tundra forest b)Rain forest of north east India c)Taiga forest d)Amazon rain forest 31.Which one of the following are at high risk extinction due to habitat destruction
a) Mammals b) Birds c) Amphibians d) Echinoderms
32. As per 2017 statistics, the highest per capita emitter of Carbon dioxide in the world is
a) USA b) China c) Qatar d) Saudi Arabia
33. The use of microorganism metabolism to remove pollutants such as oil spills in the water bodies is known as
a) Biomagnification b) Bioremediation c) Biomethanation d) Bioreduction
34. A specific place in an ecosystem, where an organism lives and performs its functions is
a) habitat b) niche c) landscape d) biome
35.Read the given statements and select the correct option.
i) Hydrophytes possess aerenchyma to support themselves in water.
ii) Seeds of Viscum are positively photoblastic as they germinate only in presence of light.iii) Hygroscopic water is the only soil water available to roots of plant growing in soil as it is present inside
the micropores.
iv) High temperature reduces use of water and solute absorption by roots.
II.ANSWER THE FOLLOWING QUESTIONS: 3X5=15
36. Explain different types of hydrophytes with examples.
OR Enumerate the anatomical adaptations of xerophytes.
37. List out any five morphological adaptations of halophytes.
OR
Write about the methodologies of HGP.

Kindly Send Me Your Key Answers to Our email id - padasalai.net@gmail.com

38. It is established that RNA is the first genetic material. Justify giving reasons.

OR

What are the factors that drive habitat loss?