BIOLOGY

- 1) Choose the correct option out of the following.
 - (A) Butyric acid Clostridium butylicum Patrick Administration (A)
 - (B) Acetic acid Aspergillus niger
 - (C) Streptokinase immunosuppressive agent in organ transplant
 - (D) Cyclosporine A used as a 'clot buster' for removing clots from blood vessels
- 2) What is the BOD value per litre in sewage water?
 - (A) 400 500 mg
 - (B) 200 500 mg
 - (C) 200 400 mg
 - (D) 500 600 mg
 - 3) Which statements are true out of the following?
 - (P) Endonuclease make cuts at specific positions within the DNA
 - (Q) A stirred tank reactor is usually square in shape
 - (R) Bacterial cells must be first be made competent to take up DNA. This is done by treating them with divalent cation Mg⁺⁺.

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- (A) Statement P is true
- (B) Statements Q, R are true
- (C) Statements P, Q are true
- (D) Statements P, Q & R are true

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1)	Statement A - DNA cannot pass through cell membrane							
	Reas	Reason R - DNA is a hydrophobic molecule						
	(A)	Statement A is correct and Reason R is wrong						
	(B)	Statement A and Reason R both are correct because R is not the explanation of A						
	(C)	Statement A and Reason R both are correct because R is the explanation of A						
	(D)	Statement A is wrong and Reason R is correct						
5)	The Fragments of DNA can be separated by a technique known as							
	(A)	Gel electrophoresis						
	(B)	Micro injection						
	(C)	Gene gun						
	(D)	Biolistics						
		infects the roots of tobacco plants and causes a great reduction in						
6)	yie							
	(A)	Wuchereria bancrofti						
	(B)							
	(C)	we find the grown of the finance of the contract of the contra						
) Ascaris lumbricoides						
		(C. D. D. J. M. J.)						

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7)	In so	me children ADA deficiency can be cured by which transplar	ntation?		
	(A)	Bone marrow			
	(B)	Liver	(e)		
, , , , , , , , , , , , , , , , , , ,	(C)	Kidney			
	(D)	Spleen	(0)		
10(1.,		. Kan a no mali por kana ni pa rediram a li sa la sa sa no			
8)	In R	tosie cow, which is nutritionally more balanced product for ba	bies?		
	(A)	Beta - lactalbumin			
	(B)	Alpha - lactalbumin			
	(C)	Albumin frame an - infring.			
	(D)	Immunoglobulin			
9) In which region maximum and minimum, mean annual precipitation is respectively?					
	(A)	Grossland, Desert			
	(B)	Tropical forest, Temperate forest			
	(C)	Tropical forest, Desert			
	(D)	Coniferous forest, Temperate forest			
		Photos and a second			

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10) Which animal is capable of meeting all its water requirements through its internal fat oxidation?

with a strength of A.S.

- (A) Kangaroo rat
- (B) Snail
- (C) Kangaroo
- (D) Rat
- 11) If you were to count the number of insects feeding on a big tree, what kind of pyramid would you get?
 - (A) Oblique
 - (B) Inverted
 - (C) Upright
 - (D) Upright inverted
- 12) Which stage of plant succession stage is shown in the given diagram?



- (A) Phytoplankton
- (B) Submerged plant stage
- (C) Reed swamp stage
- (D) Submerged free floating plant stage

(Space for Rough Work)

13)	"Tha	t within a re upto a limit	gion specie ." Which na	s richness i aturalist ha	increased s propos	l with ine	creasing (explored area, but
	(A)	Paul Ehrlie	ch				e verd	
	(B)	David Tilm	iàn					
	(C)	Alexander	von Humbo	ldt				
	(D)	Trashow						
14)	Whie	ch species o	extinction is	n the last 5		s was di	ue to ove	r exploitation by
	(A)	Quagga			- 1 - 1) WITT	
	(B)	Dodo						
	(C)	Steller's s	ea cow					
	(D)	Thylacine						
15)	Whi	ich nutrient	is absent in	dirty water	ofsewag	ze?		
	(A)				1	and the second of the second	+14 +12	
	(B)	Ammonia						
	(C)	Sodium						
	(D)	Copper					(2-1)	
16)	Wh	at is the uni	t of measure	ement of the	ickness o	of ozone	laver?	
	(A)			2		Conc	layer.	W. A. State
	(B)	DB						
	(C)	DO				16- 9	A. P	
	(D)	DN	Old Pa	pers =	Visio	onPa	pers.i	n

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17) Absence of teeth, bifid tongue and mental retardness are observed in ______

- (A) Down's syndrome
- (B) Albinism
- (C) Klinefelter's syndrome
- (D) Oral-facial-digital syndrome

18) Match the following. Choose the correct option.

	Column - I		Column - II
(i)	Conidia	(P)	Sponges
(ii)	buds	(Q)	Penicillium
(iii)	offset	(R)	Water hyacinth
(iv)	Gemmules	(S)	Hydra

- (A) (i-Q) (ii-S) (iii-R) (iv-P)
- (B) (i-Q) (ii-R) (iii-S) (iv-P)
- (C) (i-P) (ii-S) (iii-R) (iv-Q)
- (D) (i-S) (ii-Q) (iii-P) (iv-R)

19) Chromosome numbers in rice leaf is \underline{X} and chromosome numbers in egg of rat is \underline{Y} .

(A) X = 34, Y = 21

(B) X = 12, Y = 24

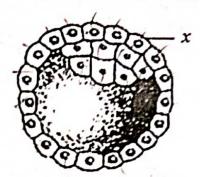
(C) X = 24, Y = 21

(D) X = 20, Y = 24

(Space for Rough Work)

20)	Which type of carpel is observed in Michelia?							
	(A)	Bicarpellary, syncarpous		,				
	(B)	Multicarpellary, apocarpous	-	() -ti V				
	(C)	Multicarpellary, syncarpous		Mary Brown				
·	(D)	Bicarpellary, apocarpous						
21)	In wa	ater hyacinth and water lily, the po	llinat	ion is carried out by which agent?				
	(A)	Water						
	(B)	Only wind						
	(C)	Only insects		10 10 10 10 10 10 10 10 10 10 10 10 10 1				
	(D)	Insects or wind		is a movement of				
				Rest 4				
22)	In b	lack pepper remnants of nucellus p	ersis	tent is known as				
	(A)	Embryo	(B)	Endosperm				
	(C)	Perisperm	(D)	Plumule				
				Laster Laboration				
23)	fact	hormone acts on the serte ors which help in the process of sp	oli ce permi	lls and stimulates secretion of some ogenesis.				
	(A)	TSH	(B)	FSH				
	(C)	LH	(D)	PIF				
		(Chase for Day	-L T	A71-)				

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- (A) Trophoblast
- (C) Blastomeres

- (B) Inner cell mass
- (D) Uterine cells
- 25) Zona Pellucida is first observed in ___
 - (A) Tertiary follicle

(B) Secondary follicle

(C) Primary follicle

- (D) Graafian follicle
- 26) The hormone releasing IUD is _____.
 - (A) Multiload 375
 - (B) Cu-7
 - (C) LNG-20
 - (D) Cu-T
- 27) In which ART method more than 8 blastomeres are transferred into the uterus to complete its further development?
 - (A) IUI
 - (B) IUT
 - (C) GIFT
 - (D) ZIFT

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28)	The blood group of Rameshbhai is B and will be the blood group of his wife?	his daughter's blood group is AB. What
	(A) B or O	tention only being the
	(B) A or AB	congress and the second
	(C) A or B	tion trager sums. (2)
	(D) A or O	second of the name with (C)
29)	"The behaviour of chromosomes was proposed by	parallel to the behaviour of genes" was
	(A) Walter Sutton and Theodor Boveri	Saferia Saferia
	(B) Alfred Hershey and Martha Chase	a more marking a vary
	(C) Watson and Crick	my a saffman rail
	(D) MacLeod and McCarty	o e monagarounts ())
30)	Choose the correct triplet codon option	for 'X'.
nina O	recall the college allowed to grow here	X many brossis along to no 125
C 15	gisandi susiberarsa 😥 mili pergelikus dinsity	d ad the or min i his
	1-2-3-4-5	
	[Sickle cell HbS peptide]	(A) IŽ:Z
	(A) GAU	540 (8)
	(B) GAG	
	(C) GUG	(C) 2 4
	(D) GAA	5 +1 (01)

31)	Histo	Histone proteins are rich in and amino acids.								
	(A)		Arginine							
	(B)	Arginir	ne, Tyrosin	ie					A	
	(C)	Lysine,	, Aspartic a	acid						
	(D)	Glutan	nic acid, Ly	sine						
32)		What is the correct sequence to transfer genetic material from virus to bacteria in Hershey - Chase experiment?						bacteria ir		
			on - Centri		- Blending	0			e et i	
	(A)		fugation - 1							
	(B)									
	(C)		fugation -							
	(D)	Infecti	on - Blend	ing - Cen	itrifugation	o 19. g.				100
33)	In Meselson and Stahl's experiment if E.coli was allowed to grow for 80 minutes then what would be the proportions of light and intermediate density of DNA molecule respectively? (If E.coli divides in every 20 minutes)									
	(A)	12:2		1.	The state of the s					
	(B)	6:2								
	(C)	2:2				,				
	(D)	14:2	Old P	apers	s = Visi	ionF	Pape	ers.ir	1	
	- 12 M 27 44 14 1	THE SHAPITE STATES	16:	pace for	r Rough	Wor	k)			
			(3)		J					

34)	The l	orain capacity	of Homo habilis is	15 A.V.
	(A)	1400cc - 160		
	(B)	1350cc - 140	00cc	
	(C)	650cc - 800c	ec	
	(D)	900cc - 1200	Occ (*)	
			to an arm tombined the Co	
35)	In G	ir forest out o	of 100 individuals 40 individuals are recessive. Cal rozygous progeny by Hardy - Weinberg principle.	culate the
	(A)	48%	Go and	- 4
	(B)	16%	िरु के स्तिमाति । अर्थ के कि क्षा किए वर्षा के को संस्था के	.07
	(C)	36%	एक मान्य क्राप्य १५	
	(D)	24%	Hr Fund Som	
			O.O. Stings on S. Adi	
36)	The	test	confirmed the disease caused by salmonella typhi.	
	(A)	ELISA Test		
	(B)	Widal Test		
	(C)	W.B. Test		
	(D)	PCR Test		
27\			And the state of t	
37)	(4)		reduce the symptoms of allergy.	
	(A)	Serotonin	o in the desired and the desir	
	(B)	Heparin		
	(C)	Adrenaline		
	(D)	Histamine	Old Papers = VisionPapers.in	
			(Space for Rough Work)	messer over college

		the body against for:	
38)	When	n ready - made antibodies are directly given to protect the body against foreits, it is called	gı
	(A)	Humoral immune response	
	(B)	Cytoplasm mediated immunity	
	(C)	Cell mediated immunity	
st h		Passive immunity	
39)	Whi	ch of the following crop of Okra (Bhindi) is insect pest resistance?	
	(A)	Pusa Sawani	,
	(B)	Pusa Sem	
	(C)	Pusa Gaurav	
	(D)	Pusa Komal Pusa Komal	
40)	Whi	ich statement is incorrect for successful Bee-keeping?	
	(A)	Management of beehives during any one season	
	(B)	Knowledge of the nature and habits of bees	
	(C)	Selection of suitable location for keeping the beehives	
	(D)	Catching and hiving of swarms	
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