SWL-12-19

Annual 2019

**Biology** (New Scheme) Paper: II

(INTER PART II CLASS 12<sup>th</sup>)(IV) Objective

Code: 8467

Time: 20 Minutes Marks: 17

1.

1		in zero mark in that q	of that ques uestion,	jective type question as tion number with marke and splanchnic meso	A, B, C and er or pen. C	d D. The choice which cutting or filling two or	you thi	nk is correct, ircles will result
	(A)	archanteron	(B)	Hensen's node	(C)	neurocoel	(D)	coelom
2	Repr	oduction is very imp	ortant for t	he survival of				
	(A)	individual	(B)	population	(C)	species	(D)	community
3.	in ho	ney bee male sperm	s are produ	ced by				
	(A)	meiosis	(B)	mitosis	(C)	apomixis	(D)	parthenogenes
4.	The	hormones which p	romote bo	lting of some rosset	e plants is	known as;		
	(A)	auxins	(B)	gibberellins	(C)	cytokinin	(D)	ethene
5.	Whic	ch of the follow g	on of	axial skeleton?				
	(A)	humerus		ænur 🛌	_(C)	rib	(D)	tibia
6.	Whic	ch of the following i	amigrad	e? /		7		
	(A)	dog	(B)	horse	(C)	rabbit	(D)	monkey
7.	Excr	etory system of plan	aria is calle	ed:				
	(A)	protonephridium	(B) n	netanephridium	(C)	malpighian tubules	(D)	renal tubules
8.	The category of plants that has adaptations of small and thick leaves to limit water loss is							
	(A)	hydrophyte	(B)	xerophyte	(C)	mesophyte	(D)	hygrophyte
9.	Antit	thrombin III is a biot	echnologic	al product produced i	n:	J.A.		
	(A)	sheep	(B)	goat	(C)	mice	(D)	cow
10-	Archaeobacteria tolerate temperature upto							
	(A)	60° c	(B)	90°c	(C)	120°c	(D)	150°c
11.	Actu	al location of place	where an o	rganism lives is called	d its			
	(A)	ecosystem	(B)	habitat	(C)	niche	(D)	biome
12.	Whic	ch one is the most fr	agile ecosy	stem?				
	(A)	grassland	(B)	woodland	(C)	tundra	(D)	savanna
13.	A sir	ngle atom can	react with	ultraviolet rays and d	estroy as n	nany as one million o	zone n	nolecules.
	(A)	oxygen	(B)	fluorine	(C)	chlorine	(D)	iodine
14.	Which of the following is a "start" codon?							
	(A)	AUG	(B)	UAA	(C)	UAG	(D)	UGA
15.	The	particular array of cl	romosome	s that an individual pe	ossesses is	called:		
2	(A)	kinesis	(B)	kinetosome	(C)	karyotype	(D)	kinetochore
16.	Duri	During this phase the condensation of chromosomes reaches to its maximum:						
	(A)	leptotene	(B)	zygotene	(C)	pachytene	(D)	diakinesis
17.	The	blood serum contain	ing antibod	ies is called;				
	(A)	lymph	(B)	plasma	(C)	antiserum	(D)	antigen

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## SWL-12-19

	Roll No	Annual 2019
Dielem	(INTER PART II - CLASS 12th)	Time : 2.40 Hours
Protogy	(INTERPART II - CLASS 12 ) SUBJECTIVE	Marks : 68
Paper : II	SODOBE II TE	Marks . 00
Note:-	Section I is compulsory. Attempt any 3 questions from Section II . $(\underline{SECTION-I})$	
2.	Write short answers to any Eight parts:	$(8 \times 2 = 16)$
	Define the given terms: (i) Hypertonic environment (ii) hypotonic e	nvironment
	Sketch urea cycle.	
iii.	Describe physiological adaptations of animals for thermoregulation.	
	Discuss the structure and functions of collenchyma cells in plants.	
v.	Name the bones of pectoral and pelvic girdle. What is CRAMP?	
VI.	Describe various steps involved in Ex-vivo gene therapy.	
viii	Discuss any two benefits of transgenic bacteria to promote health of plan	ıts.
ix.	How did plants and animals adapt land habitat?	
	How will you differentiate ALPINE and BOREAL forests?	
	Define Wild Life.	
xii.		
3.	Write short answers to any Eight parts:	$(8 \times 2 = 16)$
i.		
iii.	What is conditioning in learning behaviour?	
iv.	Differentiate between phenotype and genotype. State the law of independent assortment.	
	What is diabetes, name its types?	
	What are palindromic sequences?	
viii.		
ix.	What is cell suspension culture?	
	Differentiate between primary and secondary succession.	
	Define autecology and synecology.	
xii.	What is commensalism? Give example.	(6 - 2 - 12)
4.	Write short answers to any Six parts:	(6 x 2 = 12)
	Write the names of four types of cytoplasm contain in the fertilized egg	or ascidian.
ii.		
iii. iv.		
	Why mRNA is modified with cap and tail after its formation?	
	Define cell cycle. Write its phases.	
vii.		
viii.	What is Genetic drift?	
ix.		
	Section-II	
	Att A any three (2) arrections:	$(3\times8=24)$
Note:- 5. (a)	Attempt any three (3) questions: Give the structure and function of Nephron in human kidneys.	4
(a) (b)	Write a note on xerosere succession.	4
6. (a)	Explain the phenomenon of turgor movements in plants.	4
(b)	Write down the Beadle and Tatum experiments on neurospora.	4
7. (a)	Give an account of innate behaviour.	4
(b)	Write a note on Green House Effect.	4
8. (a)	Describe menstrual cycle in human female.	4
(b)	Describe genetics of colour blindness.	
9. (a)	Define teratology. Discuss various types of abnormalities in developmed Define Hardy –Weinberg Theorem. Discuss the various factors affecting	J111.
(b)	Define Hardy – weinberg Theorem. Discuss the various factors affecting	3 - 419 - 10500
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