Model Test paper

Biology(DA Code)

Max marks 70 **Class 10+2** Time 3 Hours

Section A

Multiple Choice questions

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ques	tion carries 2 marks		
Q1)	In man, the sperms are produced in:		
	(a)	Seminiferous tubules	
	(b)	Vasa efferentia	
	(c) Rete		
		deferens	
Q2)		, involving transfer of pollen grains from	
	anther to the stig	gma of the same flower is known as:	
	(a)	Geitonogamy	
	(b)	Xenogamy	
	(c) Au	togamy	
	(d) Ap	ogamy	
Q3)	The flow of genetic inf	ormation from DNA to RNA is known as	
	(a)	Replication	
	(b)	Transcription	
	(c)Tran	slation	
	(d)	Termination	
Q4)	Darwin's theory of ev	olution is also called	
	(a)	Theory of Natural selection	
	(b)	Theory of special Creation	
(c)Inheritance of Acquired characters			
	(d)	None of the above	
Q5)	The term ' Totipote	ncy' refers to the capacity of ————	
	(a)	Seed to germinate	
	(b)	Cell to generate whole plant	
	(c)Cell	to enlarge in size	
	(d)	None of these	

	Q6)	Which one of food chain?	the foll	owing has the	largest p	opulation in a
			(a)	Producers		
			(b)	Primary Consu	ımers	
			(c)Seco	ndary consume	rs	
			(d)	Decomposers		
						6X2=12
Write	true o	rfalse				
Each	quest	ion carries 2 ma	arks			
	Q7)	Tubectomy is i	related to	women.		
	Q8)	Mendel studie	d total 9	characters of g	arden pea	a.
	Q9)	AUG and GUG are start codons				
	Q10)	Biogas plant provides energy source as well as manure.				
	Q11)	Plasmid is line	ar DNA r	nolecule preser	nt in cell.	
	Q12)	Species divers	ity is uni	formly distribut	ed on ear	th
						6X2=12
Fill in	thebla	anks				
Each	quest	ion carries 2 ma	arks			
	Q13)	Pollination by	animals	is called	 .	
					(Hydrophi	ily/Zoophily)
	Q14)	Zygote is ——		(di	ploid/hap	oloid)
	Q15)	has the	e shape o	of clover leaf.		
					(t-RNA, m	n-RNA)
	Q16)	is the	baker'	s yeast.		
			(Sa	ccharomyces c	erevisiae/	Microsporum)
	Q17)	Bt toxin is code	ed by a g	jene named		
						(Cry/Try)
	Q18)			ber of deaths ir	າ the popເ	ulation during a
		given period	•		(Nlatal	lity/Mortality)
					(Tacal	irty, iviolitality)

Match the column I with Column II

Each question carries 2 marks Q19)

Column I	Column II
(i) Skin colour in Man	a) Multiple alleles
(ii) ABO blood group	b) Dihybrid cross
	c) Polygenic inheritance

Q20)

Column I	Column II
Name of disease	Causative Agents
(i) Malaria	(a) Plasmodium
(ii) Filariasis	(b) Microsporum
	(c) Wuchereria bancrofti

Q21)

Column I	Column II
Name of Drug	Source
(i) Opium	(a) Papaver somniferum
(ii) Cocaine	(b) cannabis sativa
	(c) Erythroxylem coca

Column I	Column II
(i) The Earth Summit	(a) Indo-Burma
(ii) Biodiversity Hotspot	(b) Rio de Janeiro
	(c) Aravali Hills

Q23)

Column I	Column II
(i) Immigration	(a) Increase population
(ii) Emigration	(b) Birth rate
	(c) Decrease population

5X2=10

Section B

Short answer type questions

Each question carries 3 marks

Q24) Name the three germ layers which give rise to all the tissues and organs

OR

Why lac operon is called inducible operon?

Q25) Write three phases of Gametogenesis

OR

What are homologous organs? Give an example.

Q26) How was insulin obtained before advent of r DNA technology?

OR

Define Mutualism. Give one example

Q27) Explain gene gun method for introduction of alien DNA into host.

OR

Write a short note on behavioral adaptations in animals.

4X3=12

Section C

Short answer type questions

Each question carries 4 marks

Q28) Suggest any two methods to assist infertile couples to have children.

OR

What are characters of flowers pollinated by insects?

Q29) List the harmful effects of alcohol or drug abuse.

OR

What are biofertilizers? What are the main source of biofertilizers?

Q30) Discuss the causes of loss of biodiversity

OR

What are sacred groves? What is their role in conservation?

3X4=12