Model Paper-2021-22

Biology (only Question Paper)

Class-12

Time – 3 hours 15 minutes

MM-70

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Note- First 15 minutes are allotted for the candidates to read the question paper.

Instructions-

- I. All questions are compulsory
- II. Illustrate your answers with labelled diagrams wherever necessary.
- III. Marks allotted to each questions are mentioned against it.

1- Choose the correct option and write in your answer book :

- a) Which of the following part represents the male sex organ of the flower- 1
 - i. Stamen
 - ii. Pistil
- iii. Megaspo<mark>rangium</mark>
- iv. Pollination
- b) In Human, sex of baby determined by
 - i. Sex chromosome of mother
 - ii. Size of ovum
- iii. Size of sperm
- iv. Sex chromosome of father
- c) Genetic engineering is used in
 - i. In Medicine
 - ii. In Agriculture
- iii. In both (i) and(ii)
- iv. None of these
- d) Lichen, which is responsible for ecological succession, in fact it shows symbiotic relation between
- i. Algae bacteria
- ii. Algae- fungi

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- iii. Bacteria fungi
- iv. Fungi- bacteria
- 2- Very short answer type questions-

a) Write chromosome number in klinefelter a	ind turnor syndrome. 1
b) By which division do male germinal cells form sperms? 1	
c) What is the number of chromosomes in pollen grain mother cell? 1	
d) Write the name of enzyme which breaks th	ne DNA in small segments. 1
e) What are plants called due to carbon dioxid	de fixation? 1
3- Short answer type questions- I	
a) Define sex determination in birds.	2
b) Draw well labelled diagram of double helix DNA model proposed by Watson	
and crick.	2
c) What is immunity?	2
d) An orchid plan <mark>t is growing o</mark> n the branch of mango tree. How would you	
describe the <mark>interaction bet</mark> ween these tw	o? 2
e) Draw clean l <mark>inear diagram o</mark> f biol <mark>og</mark> ical res	ponse. 2
Short answer type questions-II	
4 – a) Write any three differences between micro	spor <mark>angia a</mark> nd megasporangia. 3
b) In our society, when girls are born, only wo	omen are blamed. Define why it
is not correct.	3
c) Define Mendol's Law of dominance with th	he help of monohybrid cross. 3
d) Which feature of DNA – helix help Watson	and Crick to propose semi –
conservative hypothesis of DNA replication? Defi	ne it. 3
5 – a) Draw clean and labelled diagram of life – c_{y}	ycle of Malaria parasite. 3
b) How biological studies help us to control in	fectious diseases? 3
c) How biological fertilizers help to increase so	oil fertility? 3

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d) What are Baculoviruses? 3	
6 – a) Write down short notes on the following – 3	
 i.PCR ii.Restriction endonuclease enzyme b) What is the use of genetic engineering in field of agricultures? 3 c) What do you understand by transgenic animal?Give any one 2 + 1 example. d) Differentiate between the following - 3 i.Hibernation and Astivation 	
ii.Ectothermic and Endothermic	
Long answer type question-	
7 – Describe human's male reproductive system with the help of labelled 2 + 2 + 1	
diagram. Where do sperms store in the system?	
OR	
Define microsporogenesis in flowering plants with the help of labelled 3+2	
diagram.	
8- What is genetic code? Define main characterstics of genetic code. 2+ 3	
OR	
What is Mendol's Law of segregation? Define it with the help of checker board.Why it is called as Law of purity of gamets? $2 + 2 + 1$	
9 – What is adaptation? Explain with the help of examples. 2 + 3	
OR	
What are the main reasons of race damage (species degradation) in any 5 geographical areas?	

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