

- 16) "Snow leopards are not found in Kerala forests and tuna fish are rarely found beyond tropical latitude in the ocean". States the possible reasons for the same.
- 17) "Flow of energy is unidirectional but nutrient flow is in a cycle" Give reason 2
- 18) Amazon forests are regarded as "Lungs of the Planet". Why? 2

or

The gradual and predictable change in the species composition of a given area is called ecological succession. What do you understand with the pioneer and climax community?

Section C

19) A woman's husband is infertile. So the lady has decided to have baby by taking sperms from sperm bank. Which technique will you suggest for her pregnancy?

A newly married couple does not want to produce children at least for one year and also not to use any contraceptives. Suggest a method to prevent pregnancy.

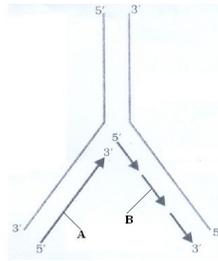
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20) Name the part of the female reproductive system where the embryo is implanted. Mention the type of tissue by which it is made up of and give their functions?

3

21) A man with blood group A married a woman with B group, they have a son with AB blood group and a daughter with blood group O, work out the possibility of inheritance with the help of a Punnett square. 3

22)



i) Name fragment A) & B)

ii) Name the process of given diagram

iii) In what phase of cell cycle this process takes place.

23) A patient has lost his immunity. 3

(i) Name the disease associated with it.

(ii) Name the confirmatory test to diagnose the disease.

(iii) Why did he lose his immunity?

24) Following are the steps for breeding process. Arrange them in correct order, name the process & state its advantages. 3

a. The female is mated with a male of good variety

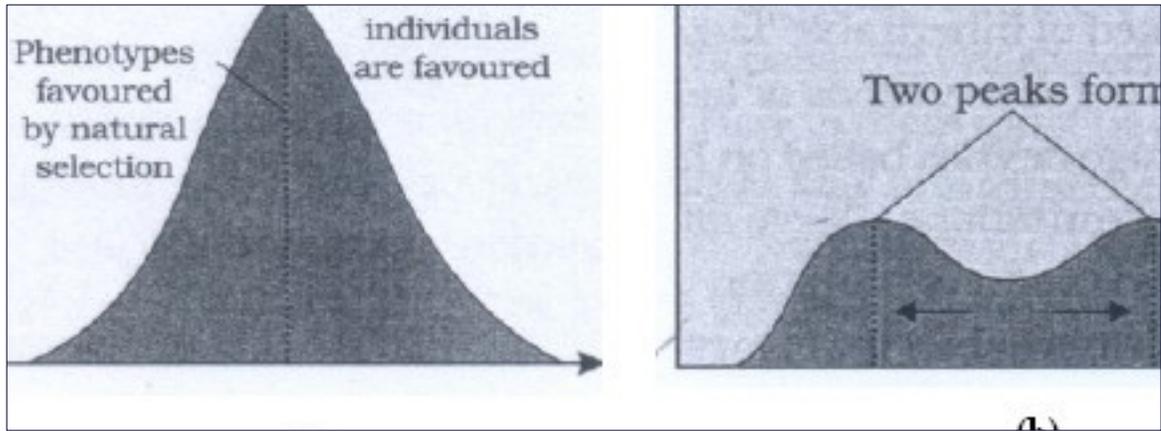
b. The fertilized egg at 8-32 cell stage are recovered & transferred to surrogate mother.

c. The female is administered hormones to induce super-ovulation.

25) For what significant properties the Baculoviruses are considered as best Biological control agent?. Mention its importance in organic farming.

26) Give the correct term for the following; -

(a) Replacing a defective mutant allele with a normal functional allele /



- i) Under the influence of which type of natural selection would graph (a) become like graph(b) 3
 - ii) What could be the likely reasons of new variations arising in the population?
 - iii) Who suggested natural selection as a mechanism of evolution?
- 30) In England, after industrialization it was observed that white winged moth did not survive. 2
- i) What you think the cause may be?
 - ii) What was the change and why it has happened?
 - iii) Which organism is known as natural indicator to air pollution?