

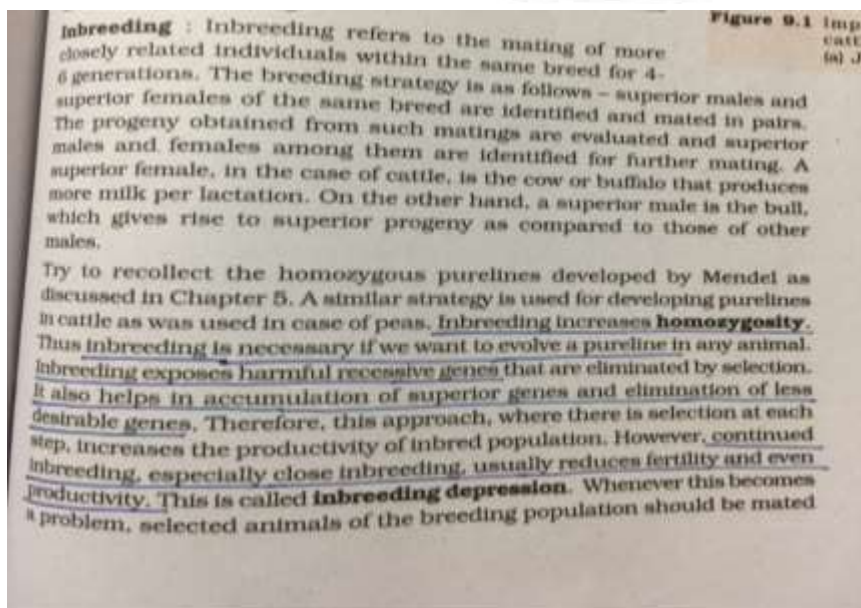
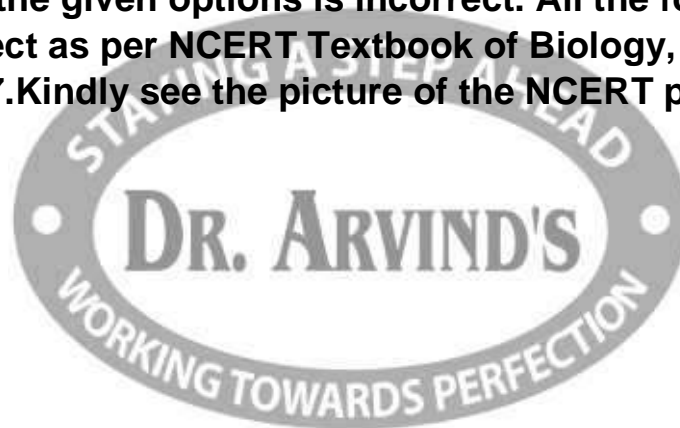
Some of the questions which were ambiguous in the Biology section of the NEET UG which was conducted on 5/5/19.

The question number mentioned here is as per the Code P2 of the question paper.

Q. 106. Select the incorrect statement:

- 1) Inbreeding increases homozygosity.
- 2) Inbreeding is essential to evolve purelines in any animal.
- 3) Inbreeding selects harmful recessive genes that reduce fertility and productivity.
- 4) Inbreeding helps in accumulation of superior genes and elimination of undesirable genes.

None of the given options is incorrect. All the four statements are correct as per NCERT Textbook of Biology, Class 12th, page 167. Kindly see the picture of the NCERT page pasted below.



Q. 155. Which of the following statements is correct :

- 1) Cornea is an external, transparent and protective proteinaceous covering of the eyeball.
- 2) Cornea consists of dense connective tissue of elastin and can repair itself.
- 3) Cornea is convex , transparent layer which is highly vascularised.
- 4) Cornea consists of dense matrix of collagen and is the most sensitive portion of the eye.

Both options (1) and (4) are partly correct.

In option (1) Cornea is only a small anterior part of the covering of the eyeball, most of it being comprised of the sclera.

In option (4) cornea is composed of not only dense matrix of collagen fibres but also epithelial layers, and some acellular layers too.

Q. 163. Cell in G_0 phase :

- 1) exit the cell cycle
- 2) enter the cell cycle
- 3) suspend the cell cycle
- 4) terminate the cell cycle

Both options (1) and (3) are true for a cell in G_0 phase. The cell in G_0 phase exits the G_1 phase of the Cell cycle and also arrests/ suspends active cell division.

NCERT Textbook of class 11th mentions the word “Exit” for a cell in G_0 phase, while Textbook of Cell and Molecular Biology by De Robertis uses the word “arrested” for a cell in G_0 phase of the cell cycle.

Some of the questions which were ambiguous in the Biology section of the NEET UG (Odisha) which was conducted on 20/5/19.

The question number mentioned here is as per the Code G1 of the question paper.

Q. 27. Which of the following statements is not correct :

- 5) An action potential in an axon does not move backward because the segment behind is in a refractory phase.
- 6) Depolarisation of hair cells of cochlea results in the opening of the mechanically gated potassium-ion channels.
- 7) Rods are very sensitive and contribute to daylight vision.
- 8) In the knee-jerk reflex, stimulus is the stretching of muscle and response is its contraction.

Both statements (2) and (3) are incorrect.

When the stereocilia are bent in the direction of increasing stereocilia length voltage gated ion channels open allowing influx of potassium ions into the hair cell. This influx excites or depolarises the hair cell. Thus, depolarisation of hair cells of cochlea is the result of opening of the mechanically gated potassium-ion channels.

It is incorrect to say that Depolarisation of hair cells of cochlea results in the opening of the mechanically gated potassium-ion channels.

Q. 59. What initiation and termination factors are involved in transcription in Eukaryotes :

- 5) σ and ρ , respectively.
- 6) α and β , respectively.
- 7) β and γ , respectively.
- 8) α and σ , respectively.

None of the given options is correct as σ and ρ , respectively, are initiation and termination factors in Prokaryotes not Eukaryotes.