

NEET 2024 Zoology Predicted Question Paper 1

Ques.1 Which protein filaments are arranged parallel to each other and to the longitudinal axis of the myofibrils?

- A. Actin filaments
- B. Myosin filaments
- C. Elastic fibers
- D. Z lines

Ques. 2 Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion: Myasthenia gravis is an autoimmune disorder affecting neuromuscular Junction leading to fatigue, weakening and paralysis of skeletal muscle.

Reason: Gout is Inflammation of joints due to accumulation of uric acid crystals

In the light of above statements, choose the most appropriate answers from the options given below :

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true but R is NOT the correct explanation or A
- C. A is true but R is false.
- D. Both A and R are false

Ques.3 Match the following columns and select the correct option.

	Column I		Column II
A	The zygote or early embryos transferred into the fallopian tube	i	GIFT
B	The embryos with more than 8 blastomeres transferred into the uterus	ii	IUT
C	Transfer of an ovum collected from a donor into the fallopian tube	iii	ICSI
D	To form an embryo in the laboratory in which a sperm is directly injected into the ovum.	iv	ZIFT

- A. A-i, B-ii, C-iii, D-iv
- B. A-iv, B-ii, C-i, D-iii
- C. A-ii, B-iii, C-iv, D-i
- D. A-iv, B-iii, C-i, Dii

Ques.4 Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion: Female mosquito takes up plasmodium gametocytes with blood meal.

Reason: Male & female gametocytes of plasmodium are formed in the human intestine.

In the light of above statements, choose the most appropriate answers from the options given below :

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true but R is NOT the correct explanation of A
- C. A is true but R is false.
- D. Both A and R are false

Ques.5 Given below are two statements: One is labelled as Assertion A and the other is labeled as Reason R.

Assertion (A): Copper-containing IUDs are also effective for emergency contraception.

Reason (R): Cu ions released suppress sperm motility and the fertilizing capacity of sperms.

In the light of above statements, choose the most appropriate answers from the options given below :

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true but R is NOT the correct explanation of A
- C. A is true but R is false.
- D. Both A and R are false

Ques.6 Given below are two statements:

Statement I: In barrier methods, ovum and sperms are prevented from physically meeting with the help of barriers.

Statement II: Intra Uterine Devices (IUDs) are orally consumed.

In the light of above statements, choose the most appropriate answers from the options given below :

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

Ques.7 Given below are two statements: One is labelled as Assertion A and the other is labelled as Reason R.

Assertion: Residual Volume (RV) is the volume of air remaining in the lungs even after a forcible expiration.

Reason: This averages 1100 mL to 1200 mL.

In the light of above statements, choose the most appropriate answers from the options given below :

- A. Both A and R are true and R is the correct explanation of A
- B. Both A and R are true but R is NOT the correct explanation or A
- C. A is true but R is false.
- D. Both A and R are false

Ques.8 Given below are two statements: One is labelled as Assertion A and the other is labelled as

Reason R.

Assertion: When our body encounters a pathogen for the first time it produces a response called primary response which is of low intensity and then subsequent encounter with the same pathogen elicits a highly intensified secondary or anamnestic response.

Reason: Our body appears to have memory of the first encounter.

In the light of above statements, choose the most appropriate answer from the options given below:

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true but R is NOT the correct explanation or A.
- C. A is true but R is false.
- D. Both A and R are false

Ques.9 Given below are two statements regarding process of transcription in eukaryotes:

Statement I: The RNA polymerase I transcribes rRNAs (28S, 18S, and 5.8S).

Statement II: The RNA polymerase III is responsible for transcription of tRNA, 5srRNA, and snRNAs (small nuclear RNAs)

In the light of above statements, choose the most appropriate answers from the options given below :

- A. Both Statement I and Statement II are correct
- B. Both Statement I and Statement II are incorrect
- C. Statement I is correct but Statement II is incorrect
- D. Statement I is incorrect but Statement II is correct

Ques.10 In eukaryotes, the regulation could be exerted at:

- (i) transcriptional level (formation of primary transcript).
- (ii) processing level (regulation of splicing).
- (iii) transport of mRNA from nucleus to the cytoplasm.
- (iv) translational level.

- A. i, ii and iv

- B. i and iii
- C. ii, iii and iv
- D. i, ii, iii and iv