

NEET Sample Paper 1 PDF for Droppers (Zoology)

1. Read the following statements.

- A. The cells of germinal epithelium are cuboidal.
- B. The main function of stratified squamous epithelium is protection.
- C. The ciliated epithelium is found in trachea and fallopian tubes.
- D. The transitional epithelium is found in renal cortex.

- (1) All are correct
- (2) Only A & B are correct
- (3) Only A, B & C are correct
- (4) Only B, C & D are correct

2. Amount of water and protein present in blood plasma is

- (1) 40 - 42% & 7 - 8%
- (2) 60 - 65% & 9 - 10%
- (3) 70 - 80% & 10 - 12%
- (4) 90 - 92% & 6 - 8%

3. Consider the following statements.

I. Fibrinogens are needed for clotting or coagulation of blood.

II. Albumins are involved in defense mechanisms of the body.

- (1) Statement I is correct but II is incorrect
- (2) Statement I is incorrect but II is correct
- (3) Both statements I & II are correct
- (4) Both statements I & II are incorrect

4. Which of the following statement is incorrect?

- (1) ADH helps in water elimination making urine hypotonic.
- (2) Protein free fluid is filtered from blood

plasma into the Bowman's capsule.

(3) Glucose is actively reabsorbed in the proximal convoluted tubule.

(4) Henle's loop plays an important role in concentrating the urine.

5. Pseudocoelomate phylum is

(1) Aschelminthes

(2) Platyhelminthes

(3) Annelida

(4) Arthropoda

6. Assertion (A): The bulbourethral gland is a male accessory gland.

Reason (R): Its secretion helps in the lubrication of the penis, thereby facilitating reproduction.

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

(1) Both Assertion (A) and Reason (R) are correct and Reason (R) is a correct explanation of Assertion (A).

(2) Both Assertion (A) and Reason (R) are correct but Reason (R) is not a correct explanation of Assertion (A).

(3) Assertion (A) is correct and Reason (R) is not correct.

(4) Both Assertion (A) and Reason (R) is incorrect.

7. Which of the following is not a characteristic of chordates?

(1) Notochord present

(2) A post-anal tail

(3) Pharynx perforated by gills slits

(4) Heart is dorsal in position

8. Which of the following is limbless Amphibia?

- (1) Hyla
- (2) Salamandra
- (3) Ichthyophis
- (4) Bufo

9. Assertion (A): All enzymes are not proteinaceous in nature.

Reason (R): Ribozymes are not proteinaceous in nature.

Choose the appropriate option.

- (1) Assertion (A) is correct but Reason (R) is not correct.
- (2) Assertion (A) is not correct but Reason (R) is correct.
- (3) Both Assertion (A) and Reason (R) are correct and Reason (R) is the correct explanation of Assertion (A).
- (4) Both Assertion (A) and Reason (R) are correct but Reason (R) is not the correct explanation of Assertion (A).

10. Nearly all of the essential nutrients and 70-80% of electrolytes and water are reabsorbed in which segment of nephron?

- (1) PCT
- (2) Ascending limb of loop of Henle
- (3) Descending limb of loop of Henle
- (4) DCT

11. When a neuron is not conducting any impulse i.e., resting, the axonal membrane comparatively

_____ to potassium ions (K^+)

) and nearly

_____ to sodium (Na^+)

) ions.

- (1) Less permeable, impermeable respectively
- (2) More permeable, impermeable respectively

- (3) Less permeable, more impermeable respectively
- (4) Impermeable, impermeable respectively

12. Assertion (A): When a particular restriction enzyme cuts strand of DNA, overhanging stretches or sticky ends are formed.

Reason (R): Some restriction enzymes cut the strand of DNA a little away from the centre of palindromic site.

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

- (1) Assertion (A) is not correct but Reason (R) is correct.
- (2) Both Assertion (A) and Reason (R) are correct and Reason (R) is the correct explanation of Assertion (A).
- (3) Both Assertion (A) and Reason (R) are correct but Reason (R) is not the correct explanation of Assertion (A).
- (4) Assertion (A) is correct but Reason (R) is not correct.

13. Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R).

Assertion (A): All vertebrates are chordates but all chordates are not vertebrates.

Reason (R): Notochord is replaced by vertebral column in the adult vertebrates.

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

- (1) Both Assertion (A) and Reason (R) are correct and Reason (R) is the correct explanation of Assertion (A).
- (2) Both Assertion (A) and Reason (R) are correct but Reason (R) is not the correct

explanation of Assertion (A).

(3) Assertion (A) is correct but Reason (R) is not correct

(4) Assertion (A) is not correct but Reason (R) is correct

14. Which of the following statements are true /false?

I. Thyrocalcitonin regulates blood glucose levels.

II. Oxytocin stimulates contractions of uterine muscles during birth.

III. Grave's disease is caused by malfunctioning of the thyroid gland.

IV. ADH stimulates the absorption of water and increased urine production.

(1) I and III are true; II and IV are false

(2) I and II are true; III and IV are false

(3) I and IV are false; II and III are true

(4) I, II and III are true; IV only false

15. _____ stimulates the synthesis and secretion of steroid hormones from the _____.

(1) CRH, Adrenal Medulla

(2) Gonadotropins, Gonads

(3) CRH, Adrenal Cortex

(4) ACTH, Adrenal medulla

16. Assertion (A): Solubility of gases affect the rate of diffusion.

Reason (R): A gas having high solubility, diffuses at a faster rate than the gas having lower solubility.

Choose the appropriate option:

(1) (A) is correct but (R) is not correct

(2) (A) is not correct but (R) is correct

(3) Both (A) and (R) are correct and (R) is the correct explanation of (A)

(4) Both (A) and (R) are correct but (R) is not the correct explanation of (A)

17. What will be the pO_2 and pCO_2 in the atmospheric air as compared to those in alveolar air?

- (1) pO_2 higher, pCO_2 lesser
- (2) pO_2 lesser, pCO_2 higher
- (3) pO_2 higher, pCO_2 higher
- (4) pO_2 lesser, pCO_2 lesser

18. The central part of thick filament, not overlapped by thin filament when a muscle is in relaxed state is called

- (1) A- zone (2) I- zone
- (3) H- zone (4) O- zone

19 Statement I: Menstrual flow lasts for 3-4 days.

Statement II: Menstruation usually occurs about 20 days after ovulation.

Choose the correct option.

- (1) Statement I is correct but statement II is incorrect
- (2) Statement I is incorrect but statement II is correct
- (3) Both statement I and II are correct
- (4) Both statement I and II are incorrect

20. Lamarck's theory was based on the hypothesis of

- (1) Use and disuse of organs
- (2) Inheritance of acquired characters
- (3) Both (1) and (2)
- (4) None of these

21. Due to discovery of which of the following in 1980s, the evolution was termed as RNA world?

- (1) m-RNA, t-RNA, r-RNA synthesis proteins
- (2) In some viruses, RNA is genetic material

- (3) RNA has enzymatic property
- (4) RNA is not found in all cells

22. Assertion (A): Restriction digestion is a process of cutting DNA by restriction enzyme

Reason (R): DNA ligase joins two DNAs.

Choose the appropriate option:

- (1) Both (A) and (R) are true and reasons is the correct explanation of (A)
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (3) (A) is true but (R) is false
- (4) Both (A) and (R) are false

23. Method involving entry of high velocity gold microparticles coated with DNA into plant cells

- (1) Protoplast function
- (2) Transfection
- (3) Biolistic
- (4) Magic bullet action

24. Statement I: Brassica napus seeds accumulate animal protein hirudin.

Statement II: In mature insulin 'C' chain is present.

- (1) Statement I is correct but statement II is incorrect
- (2) Statement I is incorrect but statement II is correct
- (3) Both statement I and statement II are correct
- (4) Both statement I and statement II are incorrect

25. The site where lymphocytes interact with antigens and proliferate to become effector cells are

- (1) Spleen and lymph nodes
- (2) Bone marrow and thymus

- (3) Peyer's patches and tonsils
- (4) Both (1) and (3)

26. Sertoli cells are found in

- (1) Pancreas and secrete cholecystokinin
- (2) Ovaries and secrete progesterone
- (3) Adrenal cortex and secrete adrenaline
- (4) Seminiferous tubules and provide nutrition to germ cells

27. Which of the following is the most effective method of birth control which prevents ovulation?

- (1) CuT (2) Oral contraceptives
- (3) MTP (4) Use of condoms

28. Which of the following is not true for an ideal contraceptive?

- (1) User friendly
- (2) Negligible failure rate
- (3) Irreversible
- (4) None or least side effects

29 Read the following statements carefully.

- (I) Cancer causing viruses have genes called viral oncogenes.
- (II) Malignant tumors remain confined to their original location.
- (III) Cancer cells do not exhibit contact inhibition.
- (IV) X-rays and UV rays are not potent carcinogens.
- (V) Cancer detection is based on biopsy.

Which of the above statements are not correct regarding cancer?

- (1) (III) and (V)
- (2) (II) and (IV)
- (3) (I), (III) and (V)
- (4) (II), (IV) and (V)

30. Statement A: The neural system is composed of highly specialised cells called neurons that can detect stimuli.

Statement B: The neural system is composed of highly specialised cells called neurons that can transmit stimuli.

- (1) Statement A is correct
- (2) Statement B is correct
- (3) Statement A and B are correct
- (4) Statement A and B are incorrect

31. If over secretion of growth hormone occurs after puberty, then individual suffers from

- (1) Gigantism
- (2) Acromegaly
- (3) Pitutary dwarfism
- (4) All of these

32. Statement I: First mammals on earth were like shrews.

Statement II: Dryopithecus were more ape-like and Ramapithecus were more man-like primate. Choose the correct option.

- (1) Statement I is correct but statement II is incorrect
- (2) Statement I is incorrect but statement II is correct
- (3) Both statement I and II are correct
- (4) Both statement I and II are incorrect

33. Autoimmunity is caused due to the

- (A) ability of immune cells to discriminate between self-cells from non-self-cells.
- (B) inability of immune cells in damaging self-cells representing foreign antigens.
- (C) inability of immune cells in distinguishing

self-cells from non-self-cells.

(D) ability of immune cells to damage self-cells.

- (1) (A) and (B) only
- (2) (B) and (C) only
- (3) (C) and (D) only
- (4) (A) and (D) only

34. Primary structure of a protein relates to

- (1) α -helical folding of a polypeptide
- (2) Association of two polypeptides
- (3) The sequence of amino acids
- (4) β -pleated sheet folding of a polypeptide

34. Labia majora in human is homologous to

- (1) Clitoris (2) Hymen
- (3) Scrotum (4) Testis

35. Which of the following is used as a bioweapon?

- (1) *Bacillus subtilis*
- (2) *Bacillus licheniformis*
- (3) *Bacillus thuringiensis*
- (4) *Bacillus anthracis*

36. Which of the following groups of contraceptives are included under barrier methods?

- (1) Condom, vaults, IUDs, cervical caps
- (2) IUDs, diaphragm, periodic abstinence, injections
- (3) Condom, diaphragm, cervical caps, vaults
- (4) Surgical methods, oral contraceptives, cervical caps, vaults

37. Striations in the striated muscles are due to

- (1) Absence of myofilaments
- (2) Presence of myofilaments
- (3) Specialised arrangement of myofilaments
- (4) Projections of myosin

38. First polar body is formed during the formation of _____ and completion of _____ meiotic division.

- (1) Primary oocyte, second
- (2) Secondary oocyte, first
- (3) Secondary spermatocyte, second
- (4) Primary spermatocyte, first

39 Which of the following arthropods are harmful?

- (A) Culex (B) Bombyx
- (C) Apis (D) Locusta
- (1) A and B (2) B and C
- (3) B and D (4) A and D

40. Restriction endonuclease cuts

- (1) dsDNA
- (2) ssDNA
- (3) Single strands of dsDNA
- (4) Both (1) and (2)



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