



BIOLOGY

BOOKS - NTA MOCK TESTS

NTA NEET TEST 22

Biology

1. The one strand of DNA has a nucleotide sequence 3' ATTCGCTAT 5', the nucleotide sequence of other DNA strand will be

- A. 3' TAAGCGATA 5'
- B. 5' TAGCACGTA 5'
- C. 5' TAGCACGTA 3'
- D. 5' TAAGCGATA 3'

Answer: D



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2. According to the chemiosmotic hypothesis of ATP formation in the chloroplast, which one does not contribute to the development of proton gradient across the thylakoid membrane?

- A. Splitting of water
- B. Reduction of $NADP^+$ to $NADPH + H^+$
- C. Reduction of NAD^+ to $NADPH + H^+$
- D. Removal of H^+ from stroma while transporting electron

Answer: C



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3. Which of the following is a correct match between crop, variety and resistance to diseases ?

- A. Crop Variety Resistance to diseases
Wheat Himgiri White rust
- B. Crop Variety Resistance to diseases
Brassica Pusa sadabahar Black rot
- C. Crop Variety Resistance to diseases
Cowpea Pusa komal Bacterial blight
- D. Crop Variety Resistance to diseases
Chilli Pusa swarnim Chilly mosaic virus

Answer: C



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4. The most thoroughly studied known bacteria- plant interactions is ,

- A. plant growth stimulation by phosphate -solubilising bacteria
- B. cyanobacterial symbiosis with some aquatic ferns
- C. gall formation on certain angiosperms by agrobacterium

D. nodulation of sesbania stems by nitrogen fixing bacteria

Answer: C



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5. The cardiac pacemaker in a patient fails to function normally. The doctors find that an artificial pacemaker is to be grafted in him. It is likely that it will be grafted at the site of

- A. Atrioventricular bundle
- B. Purkinje system
- C. Sino-atrial node
- D. Atrio-ventricular node

Answer: C



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6. Pentamerous, actinomorphic flowers, bicarpellate ovary with oblique septa and capsule or berry fruits are characteristic features of

A. Brassicaceae

B. Solanaceae

C. Liliaceae

D. Asteraceae

Answer: B



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7. In ureotelic animals, which one pair of the following wastes are removed from the blood ?

A. Ammonia and urea

B. Urea and sodium salts

C. CO_2 and ammonia

D. CO_2 and urea

Answer: C



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8. What will be the ploidy of endosperm and zygote if the cross is made between a $6n$ female plant and a $4n$ male plant?

A. $5n, 8n$

B. $8n, 5n$

C. $10n, 7n$

D. $6n, 4n$

Answer: B



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9. A potted plant placed near the window bends outwardly due to

- A. Greater oxygen availability to the tip
- B. More auxin content on the shaded side
- C. Greater light availability to tip
- D. Availability of necessary warmth to the tip

Answer: B



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10. A colourblind man marries a woman with normal sight who has no history of colour blindness in her family. What is the probability of their sons being colourblind?

- A. 1
- B. Nil

C. 0.25

D. 0.5

Answer: B



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11. In the equation, $dN/dt = rN$

A. r' is called the 'intrinsic' rate of natural increase'.

B. r' is the parameter chosen for assessing impacts of any biotic factor on population growth.

C. r' is the parameter chosen for assessing impacts abiotic

D. All of these

Answer: D



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12. Which of the following includes all homologous organs?

- A. The wings of butterfly, wing of bird, wing (patagia) of bat
- B. The fore limb of frog, wing of bird and fore limb of rabbit
- C. The thoracic leg of cockroach, the hind leg of frog and fore leg of rabbit
- D. The wing of bird, wing of bat and wing of "flying" lizard

Answer: B



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13. The primary source of allelic variation is

- A. Independent assortment
- B. Mutation
- C. Polyploidy

D. Recombination

Answer: B



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14. Introduction of attenuated pathogens in human body results in_____.

- A. Artificial acquired active immunity
- B. Artificial acquired passive immunity
- C. Natural acquired active immunity
- D. Nature acquired passieve immunity

Answer: A



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15. In some plants, the female gamete develops into embryo without fertilisation. This phenomenon is known as

- A. Autogamy
- B. Parthenocarpy
- C. Syngamy
- D. Parthenogenesis

Answer: D



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16. In some organisms, karyokinesis is not followed by cytokinesis as a result of which, multinucleate condition arises leading to the formation of syncytium. The perfect example for this is

- A. Appearance of a furrow in cell membrane
- B. Liquid endosperm in coconut

C. Sexual reproduction

D. Fertilization

Answer: B



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17. Lichens indicate SO_2 (2) pollution because they

A. Show association between algae and fungi

B. Grow faster than other

C. Are sensitive to SO_2

D. Flourish in SO_2 rich environment

Answer: B



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18. Lysozyme is present in perspiration, saliva and tears .It destroys

- A. certain fungi
- B. Most virus-infected cells
- C. certain types of bacteria
- D. All virus

Answer: C



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19. fascicular , interfascicular and extra-fascicular cambium together constitute

- A. Ground meristem
- B. Apical meristem
- C. Intercalary meristem

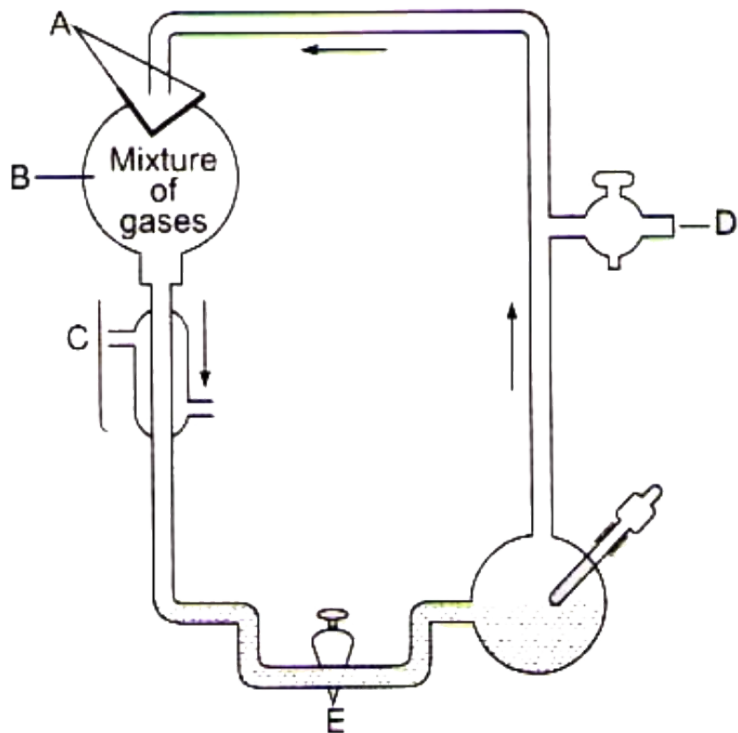
D. Lateral meristem

Answer: D

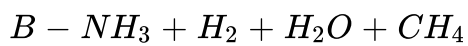


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20. The diagram represent Miller's experiment. Choose the correct combination of labelling.



A - Electrodes

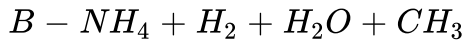


C - Cold water

D = Vacuum

E - U-trap

B. A-Electrodes

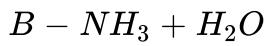


C - Hot water

D = Vacuum

E - U-trap

C. A-Electrodes

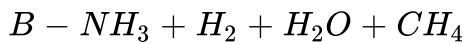


C - steam

D = U-trap

E - Vacuum

D. A-Electrodes



C - Steam

D = Vacuum

E - U-trap

Answer: A



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21. Golden rice is a transgenic crop of the future with which of the following improved trait?

- A. Insect resistance
- B. High lysine(essential amino acid)content
- C. High protein
- D. High vitamin -A

Answer: D



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22. Vasa efferentia are the ductules leading from:

A. Testicular loubles to rete testis

B. Vas deferens to epididymis

C. Epididymis to urethra

D. Rete testis to Vas deferns

Answer: D



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23. The exchange of gases with the surrounding atmosphere for respiration takes place through the skin in which of the following organisms?

A. Homo sapiens

B. Rana tigrina

C. Psittacula Krameria

D. Panthera leo

Answer: B



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24. Adrenaline and noradrenaline are hormones that act as

- A. play an important role in the body's fight or flight response
- B. Causes increased blood pressure, heart rate ,and blood sugar levels.
- C. act as both neurotransmitters and hormones
- D. All of these

Answer: D



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25. Which one of the following microbes is the source of acetic acid?

- A. Clostridium acetobutylicum
- B. Acetobacter aceti
- C. Gluconacetobacter liquefaciens
- D. All of these

Answer: D



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26. Which one of the following pairs of structures distinguishes a nerve cell from other types of cells?

- A. Vacuoles and fibres
- B. Flagellum and medullary sheath
- C. Nucleus and mitochondria
- D. Cell body of a neuron and dendrites

Answer: D



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27. What would happen if in a gene encoding a polypeptide of 50 amino acids, 25th codon (UAU) is mutated to UAA ?

- A. A polypeptide of 25 amino acids will be formed
- B. A polypeptide of 24 amino acids will be formed
- C. Two polypeptide of 24 and 25 amino acids will be formed
- D. A polypeptide of 49 amino acids will be formed

Answer: B



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28. Which one of the following groups of three animals each is correctly matched with their one characteristic morphological features?

- | | | |
|----|---------------------------|------------------------|
| A. | Animal | Morphological features |
| | Liver fluke, Sea cucumber | Bilateral symmetry |

B. Animal Morphological fractures
Centipede, Prawn, Sea cucumber Jointed appendages

C.

Animal Morphological fractures

Scorpion, Spider, Cockroach Ventral solid central nervous system

D. Animal Morphological fractures

Cockroach, locust, Taenia Metameric segmentation

Answer: C



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29. _____ showed that viruses could be crystallized, and crystals majorly consist of proteins.

A. Ivanowsky

B. Beijernick

C. Stanely

D. Diener

Answer: C



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30. Which one of the following methods is commonly used to maintain the genetic of a given plant?

- A. By propagating through seed germination
- B. By propagating through vegetative multiplication
- C. By generating hybrids through intergeneric pollination
- D. By treating the seeds with gamma radiations

Answer: B



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31. What will be the correct gene expression pathway

- A. Gene-mRNA transcription-translation-protein
- B. transcription -gene translation-mRNA- protein

C. Gene transcription mRNA-translation protein

D. Gene-translation mRNA-transcription protein

Answer: C



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32. Capacitation refers to changes in the

A. Sperm after fertilisation

B. Sperm before fertilisation

C. Ovum before fertilisation

D. Ovum After fertilisation

Answer: B



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33. Collenchyma tissue is characterized by

- A. Elongated cells with thickening at the corners
- B. Isodiametric cells with thickening all over the walls
- C. Isodiametric cells with deposits of cellulose and lignin at the corners
- D. Elongated cells which are not involved in the function of food storage

Answer: A



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34. Read the following statements(A-D)

1. Hypothalamus controls body temperature,eating and drinking
- 2.The midbrain receives and integrates visual,tactile and auditory inputs
- 3.The medulla contains centres,which control respiration,cardiovascular

reflexes and gastric secretions

4. The entire process of involuntary response to a peripheral nerve stimulation is called reflex action.

How many of the above statements are true?

A. 3

B. 4

C. 2

D. 1

Answer: B



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35. Which of the following is correct ?

A. All fungi are filamentous.

B. Transfer of DNA cannot take place from one bacteria to another.

C. A virus cannot have both DNA and RNA .

D. Protists can reproduce only asexually.

Answer: C



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36. Which of the following statements is not correct regarding ACTH?

A. It is secreted by the anterior lobe of pituitary.

B. It regulates skin pigmentation in human beings.

C. It acts on the adrenal cortex and it mainly stimulates the secretion of mineralocorticoids.

D. Its hypersecretion causes bronze-like pigmentation of skin.

Answer: C



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37. In striped muscles, cross bridges rapidly dissociate when

- A. ADP and inorganic phosphate separates from myosin head
- B. ATP attaches to the myosin head
- C. Calcium binds to tropomyosin
- D. Troponin-tropomyosin complex masks the active binding sites for myosin on the actin filaments

Answer: B



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38. Which of the following phases do not take place in a cell exhibiting a syncytium?

- A. Cytokinesis
- B. Karyokinesis

C. Interphase

D. None of these

Answer: A



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39. Which of the following is a non-symbiotic biofertilizer?

A. Mycorrhizae

B. Azotobacter

C. Anabaena

D. Rhizobium

Answer: B



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40. The worst environmental hazards were created by accidents in nuclear power plant and mic gas tragedy, respectively in

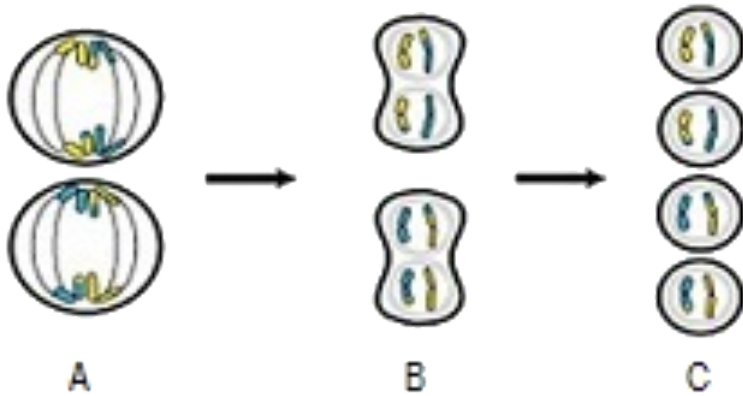
- A. Russia in 1990 & bhopal 1986
- B. Ukraine in 1988 & USA in 1984
- C. Bhopal in 1984 & Russia in 1990
- D. Ukraine I 1986 and bhopal in 1984

Answer: D



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41. Identify the phase 'C' of the cell cycle given below.



A. Cytokinesis

B. Karyokinesis

C. Mitosis

D. Telophase II

Answer: D



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42. The intine of pollen grains is composed of

- A. Lipid and protein
- B. Cellulose and pectin
- C. Lignin and cutin
- D. Pectin and lignin

Answer: B



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43. Which of the following is a hormone releasing intra uterine device (IUD)?

- A. Multiload - 375
- B. LNG- 20
- C. Cervical cap
- D. Vault

Answer: B



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44. In Swiss cheese, large holes are formed due to the production of a large amount of CO_2 by the bacterium

- A. *Aspergillus niger*
- B. *Propionibaacterium shermanii*
- C. *Clostridium botulinum*
- D. none of the above

Answer: B



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45. The tapetal nuclei in anthers of many angiosperm flowers are

A. Aneuploid

B. Polyploid

C. Haploid

D. Not having complete haploid genome

Answer: B



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