# đず doubtnut 

India's Number 1 Education App

## BIOLOGY

## BOOKS - KVPY PREVIOUS YEAR

## MOCK TEST 7

Exercise

1. The brachial plexus are formed by which of
the following spinal nerves?
A. IV,V,VI cervical
B. V, VI, VII,VIII cervical and I thoracic
C. IV to VII lumbar
D. First three sacral

## Answer:

D Watch Video Solution
2. Drugs that alter the permeability of the plasma membrane of a neuron have which of
the follow-ing effects on nerve impulse conduction?
A. They prevent movement of sodium and potassium ions into and out of the cell,
thereby stopping the transmission of
the impulse.
B. They primarilyaffect conduction along
the axon.
C. They prevent the release of neurotransmit- ters at synapses.

## D. All of the above

## Answer:

## D Watch Video Solution

3. Cyclic and non-cyclic electron flow is used in
plants to
A. meet the ATP demands of the Calvin

Benson cycle.

## $N A D P H+H^{+}$.

C. balance ATP and $N A D P H+H^{+}$ratios
in the chloroplast.
D. All of the above

Answer:

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4. At the zoo, Ratan saw a species of primate.

He had never even heard of before. He said, it was called a white-faced saki.lt had long, dark,spiky fur, a long fluffy tail,forward-facing brown eyes, a white forehead, and yellow cheeks. Based on this information, the whitefaced saki could not bean :
A. Ape
B. Prosimian
C. New World monkey

## D. Old World monkey

## Answer:

## D Watch Video Solution

5. In our society women are balmed for producing female children. Choose the correct answer for the sex- determination in humans
A. This is due to some defect in the women.
B. This is due to some defect like
aspermiain man.
C. This is due to the genetic make up of the particularsperm which fertilisesthe egg.
D. This is due to the genetic makeup of the egg.

## Answer:

## D Watch Video Solution

6. If there are 120 adenine molecule in abDNA
double helical structure showing 20 coils,
what is the number of pyrimidine nucleotides
forming three hydrogen bonds in it
A. 80
B. 100
C. 120
D. 140

## Answer:

# 7. Menthyl guanosine triphosphate is added to 

the 5 ' end of hnRNA in a process of
A. Splicing
B. Capping
C. Tailing
D. None of these

Answer:
8. Patients with HIV are susceptible to a variety of infections because
A. the virus produces cell surface receptors
that bind to pathogens,making it easier
for those pathogens to be infective.
B. synthesising a DNA copy of the viral
genome makes a person fell sick.
C. HIV attacks and destroys the T helper
cells, which are central to mounting an
effective immune response,making those individuals more susceptible to other infections.

D. HIV destroys B cells so that antibodies

cannot be made in response to invading pathogens.

## Answer:

9. Significance of 'heat shock' method in bacterial transformation is to facilitate
A. binding of DNA to the cell wall with the help of proteins.
B. uptake of DNA through membrane
transport proteins.
C. uptake of DNA through transient pores
in the bacterial cell wall.
D. expression of antibiotic resistance gene.

## Answer:

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10. The endosperm found in angiospermic seed is different from that of gymnospermsin the sense that, in the former
A. it is formed before fertilisation while in
the latter it is formed after fertilisation.
B. it is formed after fertilisation.

# C. it is cellular while in the latter it is 

 nuclear.D. it is nutritive while in the latter it is
protective.

## Answer:

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11. Basically a verticillaster inflorescence is a type of:
A. Cymose
B. Racemose
C. Raceme
D. Panicle

## Answer:

## D Watch Video Solution

12. In human, attached earlobes are a dominant feature over free earlobes while hypertrichosis (Y-linked) feature. A man with
attached earlobed and extensive hair on pinna married a woman having free earlobes. The
couple had one son with free earlobes and hairy pinna and two daughters with attached earlobes. One of the daughters with attached
earlobes. One of he daughters married a man with free earlobes and sparse hair on pinna.

They had two sons. What would be the characteristics of their ponnae?
A. There would be equal chances for both
having free or attached earlobes and sparse hair on pinnae.
B. They would have hairy pinnae and there
would be 1 in 8 chance that both will have attached earlobes.
C. There is an equal chance for the two to
have either hairy pinnae or sparse hair on pinnae.
D. Both will have free earlobes and extensive hair on pinnae.

## Answer:

13. Many molecules are chiral i.e., their mirror images are non-superimposable. Which of thefollowing could be affected if the chirality of a molecule is changed in a biological system? (i) Taste reception (ii) Smell perception (iii) Toxicity (iv) Mode of action
A. (i) and (ii)
B. (i),(ii)and(iii)
C. (iii)and(iv)

## D. (i),(ii),(iii)and(iv)

## Answer:

## D Watch Video Solution

