



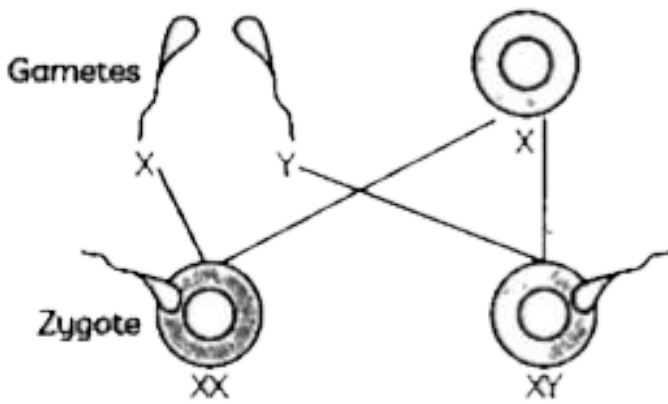
BIOLOGY

BOOKS - EDUCART PUBLICATION

SAMPLE PAPER (SELF-ASSESSMENT)-11

Section A

1. Identify the organism in which this type of sex determination takes place:



A. Grasshoppers

B. Birds

C. Humans

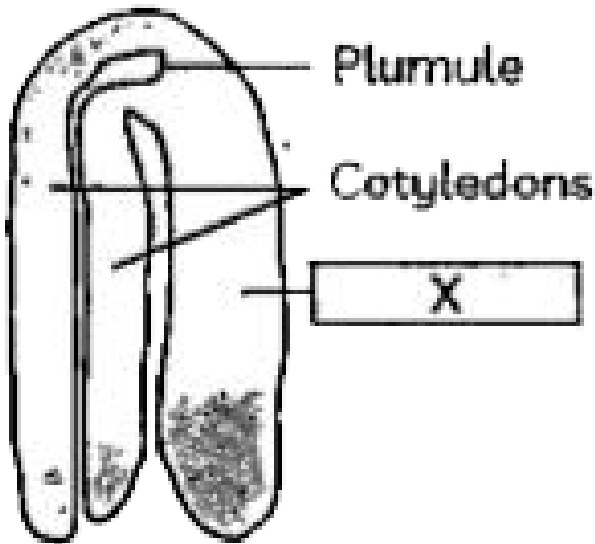
D. Honey bee

Answer:



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2. Which among these is true about X ?



A. X is the portion of embryonal axis that is above the level of cotyledons.

B. X is the cylindrical portion below the level of cotyledons.

C. X terminates in the plumule or stem tip.

D. X protects the cotyledons.

Answer:



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3. Which of the following options is correct matched:

(A)	Tomato	True Fruit
(B)	Cashew Nut	True Fruit
(C)	Strawberry	True Fruit
(D)	Mango	False Fruit

A. A

B. B

C. C

D. D

Answer:



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4. In humans, the Acrosome is present in:

- A. Posterior portion of head of the human sperm.
- B. Anterior portion of head of the human sperm.
- C. Middle portion of the human sperm.
- D. The sperm tail.

Answer:



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5. Leydig cells are X = (as they lie between the seminiferous tubules).

A. X = Sertoli cells

B. X = Testicular cells

C. X = Interstitial cells

D. X = Seminiferous cells

Answer:



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6. The release of X = from the maternal pituitary helps in delivery of the foetus.

A. hCG

B. Progesterone

C. Oxytocin

D. HPL

Answer:



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7. Which among these helps in binding to the ribosome?

A. T- loop

B. D- loop

C. Anticodon loop

D. Vairiable loop

Answer:



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8. Experimental verification of chromosomal theory of inheritance was done by

A. Darwin and his colleagues

B. Walter Sutton and Theodore Boveri

C. Friedrich Meischer

D. Thomas Hunt Morgan and his colleagues.

Answer:



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9. Sterilisation can lead to:

A. Infections of reproductive tract

B. Cancers

C. Genetic abnormalities

D. Hormonal abnormalities

Answer:



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10. After the completion of tubectomy, the ovum or egg:

A. Isn't generated.

B. Is generated without any ability to get fertilised.

C. Undergoes absorption.

D. Both (b) and (c)

Answer:



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11. Choose the most common insect pollinator from the given list:

A. Beetles

B. Bees

C. Wasps

D. Flies

Answer:



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12. Which of these features are present in the flowers pollinated by beetles or flies?

- A. Feathery stigma
- B. Large flowers
- C. Secrete foul odour
- D. Well exposed stamen

Answer:



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13. Cystic fibrosis is a lethal disorder caused due to mutation on the:

- A. 7th chromosome
- B. 8th chromosome
- C. 6th chromosome
- D. 5th chromosome

Answer:



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Section B

1. Assertion (A): The process of translation or protein synthesis terminates when the A-site of ribosome encounters a termination codon.

Reason (R): A release factor binds to the stop codon and translation is terminated.

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. A is false but R is true

Answer:



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2. Assertion : In transcription only a segment of DNA and only one of the strands is copied into RNA.

Reason : The process of replication, once set in, duplicates the total DNA of an organism.

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. A is false but R is true

Answer:



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3. Which among these are methodologies involved in the human genome project?

A. Expressed Sequence Tags (ESTs)

B. Sequence Annotation

C. Refurbishing inventorial data

D. Genome sequencing

Answer:



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4. Which among these statements holds true:

A. Small doses of either progestogens or progestogen-estrogen combinations are utilised in making oral contraceptives.

B. Pelvic inflammatory disease is an infection that happens in the Men's reproductive tract.

C. Gonad removal is a reversible contraceptive method.

D. Copper -T enhances fertility rate in women.

Answer:



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5. Periodic abstinence works between:

A. Day 5 to 9 of the menstrual cycle

B. Day 17 to 24 of the menstrual cycle

C. Day 10 to 17 of the menstrual cycle

D. Along the whole menstrual period.

Answer:



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6. Among the terms listed below, those that are not technically correct names for a floral whorl are

(i) Andrecium (ii) Carpel

(iii) Corolla (iv) Sepal,

A. (I) and (IV)

B. (III) and (IV)

C. (II) and (IV)

D. (I) and (II)

Answer:



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7. Which among these code for Glutamine in Paramecium?

A. UAA

B. UGA

C. Both (a) and (b)

D. Neither (a) nor (b)

Answer:



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8. independently found that in retroviruses the flow of genetic information or central dogma occurs in reverse direction,

involving reverse transcription (forming DNA from RNA).

A. Temin and Baltimore

B. Hershey and Chase

C. Watson and Crick

D. McCleod and McCarty

Answer:



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9. Which among these is a Mendelian disorder?

A. Haemophilia,

B. Cystic fibrosis,

C. Sickle cell anaemia

D. All of these

Answer:



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10. Choose the disease which doesn't correspond to a Sexually Transmitted Infection?

A. Warts

B. Turner's syndrome

C. Syphilis

D. Trichomoniasis

Answer:



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11. In the lac operon system, beta-galactosidase is coded by

A. a

B. z

C. y

D. Structural

Answer:



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12. In Transcription, rRNA plays an important:

- A. Structural role
- B. Catalytic role
- C. (a) and (b) are correct
- D. Logistical role

Answer:



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13. The process of translation or protein synthesis terminates when a particular site of ribosome encounters a termination codon.

Name the site.

A. R-site

B. M-site

C. H-site

D. A-site

Answer:



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14. A nitrogenous base not present in RNA is

A. adenine,

B. guanine,

C. thymine

D. cytosine.

Answer:



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15. Serine is not coded by:

A. UCU

B. UCC

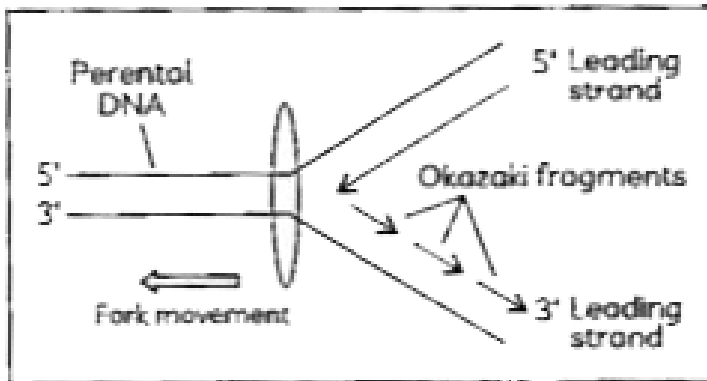
C. UCA

D. CGU

Answer:



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1. Observe the given figure. Which enzyme might be responsible here for releasing the tension in the DNA helix?

- A. Topoisomerase.
- B. DNA Urase
- C. Helicase
- D. DNA polymerase

Answer:



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