BIOLOGY

NEET & AIIMS

Mock test 33

Example

1. Who identified the biochemical nature of transforming substance?

A. Oswald Avery and Colin Macleod

B. Maclyn McCarty

C. F. Griffith

D. Both (1) and (2)

Answer: D

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2. Select incorrect statement w.r.t. charecteristic of genetic material

A. It should chemically and strucrally be stable

B. It should be able to generate its replica

C. It should provide the scope of rapid mutation for evolution

D. It should be able to express itself

Answer: C

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3. RNA is labile and easily degradable and unstable due to

A. Presence of free 2' OH

B. Presence of uracil

C. Presence of single stranded binding proteins

D. All except (3)

Answer: D

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4. _____ was the first genetic material

A. DNA

B. RNA

C. Nucleoid

D. Prochoromosome

Answer: B

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5. A dense solution of CsCl,on centrifugation forms density bands of a solution of

A. Lower density at the bottom

B. Lower density at the top

C. Higher density at the top

D. Medium density at extreme bottom

Answer: B

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6. DNA replication in eukaryotic organisms is

A. Semi-discontinuous with single ori

B. Semi-conservation and semi-discontinuous

C. Semi-conservation with single ori

D. Conservation and bidirectional

Answer: B

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7. _____ proved semi-conservation mode of chromosome replication in_____

A. Cairms, Bacteriophage

B. Cairms,Faba beans

C. Taylor et.all, Vicia faba

D. Taylor, E.coli

Answer: C

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8. The whole genome of Escherichia coli have _____ bp which is replication within_____ minutes6

A. $6.6x10^6, 20$

B. $4.6x10^9, 33$

C. $4.6x10^6, 38$

D. $6.6x10^9, 40$

Answer: C

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9. Number of ori (origin of replication) in E.coli and Zea mays are_____ and _____ respectively

A. 10 and 1000

B. One and several thousands

C. 10^5 and 10^{15}

D. One and two

Answer: B

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10. Unwinding of double helix DNA is brought about by _____ , which is _____ dependent

A. Topoisomerase,ATP

B. Helicase, ADP

C. Helicase, ATP

D. Topoisomerase, GTP

Answer: C

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11. In E.coli and Zea mays are ____ and ____ respectively.

A. DNA Polymerase

B. Primase

C. Topoisomerase

D. Helicase

Answer: C

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12. Konberg enzyme adds _____ nucleoides per minute during polymerase activity

A. 50

B. 2000

C. 1000

D. 500

Answer: C

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