



BIOLOGY

AAKASH INSTITUTE ENGLISH

Mock Test 34

Example

1. The correct order of different RNAs w.r.t. their lengths is

A. mRNA gt tRNA gt rRNA

B. mRNA gt rRNA gt tRNA

C. tRNA gt rRNA gt mRNA

D. tRNA gt mRNA gt rRNA

Answer: B



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2. The expressed sequences in processed RNA are called

A. HnRNA

B. Snurps

C. Sense strands

D. Exons

Answer: D



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3. A transcription unit is defined by three regions in DNA as

A. Promoter, terminator and inducer

B. Promoter, structural gene and terminator

C. Inducer, Structural gene and Operator

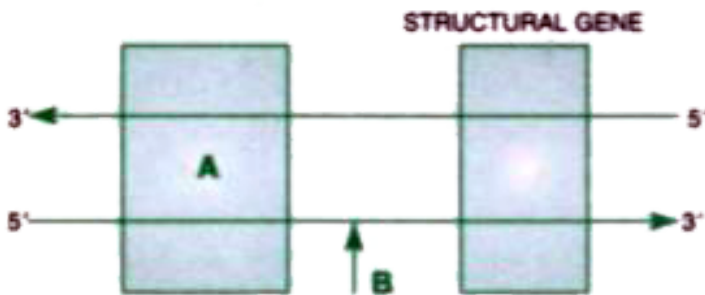
D. Promoter, Operator and Structural gene

Answer: B



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4. Name the parts A and B of the transcription unit in the given picture.



A. X - Promoter N - Template strand

B. Z - Template strand M - Transcription
start site

C. Y - Operator N - Coding strand

D. Z - Template strand N - Coding strand

Answer: D



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5. In transcription unit, the promoter sequence is located

A. Towards 5' end upstream of the structural gene

B. Towards 5' end downstream of the structural gene

C. Towards 3' end upstream of the structural gene

D. Towards 3' end downstream of the coding strand

Answer: A



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6. The Terminator in transcription unit is located at

- A. 3' end downstream of the coding strand
- B. 5' end downstream of the coding strand
- C. 5' end upstream of the coding strand
- D. 3' end upstream of the coding strand

Answer: A



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7. Selected the correct option

- A. Genes are located on DNA and protein

B. Gene is the functional unit of inheritance

C. A segment of DNA coding for a polypeptide is called a cistron

D. Both (2) and (3)

Answer: D



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8. Which is mismatched?

A. RNA Polymerase I - 18S rRNA synthesis

B. RNA Polymerase II - HnRNA synthesis

C. RNA Polymerase III - ScRNA synthesis

D. RNA Polymerase II - 5.8S rRNA synthesis

Answer: D



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9. _____ play structural and catalytic role during translation.

A. tRNAs

B. rRNAs

C. mRNAs

D. DNA Polymerase

Answer: B



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10. Small nuclear RNA is transcribed by

A. RNA Polymerase I

B. RNA Polymerase III

C. RNA Polymerase II

D. Both (1) and (3)

Answer: B



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11. In eukaryotes, RNA polymerase III catalyses the sythesis of

A. tRNA

B. 18S rRNA

C. 5S rRNA

D. Both (1) and (3)

Answer: D



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12. In capping, _____ is added to 5' end of _____

A. Unusual nucleotide, rRNA

B. Methyl guanosine triphosphate, hnRNA

C. Guanosine monophosphate, hnRNA

D. Unusual nucleotide, tRNA

Answer: B



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13. In tailing, about _____ adenylate residues are added at 3' -end in a template independent manner on hnRNA

A. 1000 – 2000

B. 10 – 15

C. 200 – 300

D. 3000 – 3500

Answer: C



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14. During RNA splicing, which one of the following is removed?

A. Primary transcripts

B. Exons

C. Introns

D. Both (2) and (3)

Answer: C



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15. Which one of the following factors is not a part of prokaryotic RNA Polymerase?

A. beeta

B. alpha

C. sigma

D. rho

Answer: D



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16. Who coined the term 'genetic code'?

A. H.G. Khorana

B. Marshall Warren Nirenberg

C. George Gamow

D. Shine Dalgarno

Answer: C



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17. Which triplet genetic codon on the mRNA molecule has dual functions?

A. UUU

B. AUG

C. UGG

D. Both (1) and (3)

Answer: B



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18. Select the incorrect option w.r.t. salient features of genetic code.

A. One codon overlaps the next codon

B. The code is nearly universal

C. The codon is read in mRNA in a
contiguous fashion

D. The codon is triplet

Answer: A



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19. Select the ambiguous codon

A. GUG

B. AUG

C. UUU

D. AAG

Answer: A



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20. DHU loop in tRNA is referred as

A. Aminoacyl synthetase binding loop

B. Ribosomal binding loop

C. Anticodon loop

D. Both (2) and (3)

Answer: A



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21. For prokaryotic, select the incorrect option w.r.t. recognition sequence present at the promoter region for binding of RNA Polymerase.

A. Pribnow box

B. Hogness box

C. CAAT box

D. All except (1)

Answer: D



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22. Select odd one w.r.t. rRNA found in eukaryotes.

A. 18 S

B. 5 S

C. 16 S

D. 5.8 S

Answer: C



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23. Statement A: All tRNA molecules have a guanine residue at its 5' terminal end.

Statement B: There are several tRNAs for stop codons.

A. Statement A is correct and Statement B is incorrect

B. Both the statement A and statement B are incorrect

C. Both the statement A and statement B are correct

D. Statement A is incorrect and Statement B is correct

Answer: A



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24. Out of 64 codons, how many of them code for stop signal?

A. 3

B. 2

C. 5

D. 4

Answer: A



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25. Which of the following mutations prove(s) that codon is a triplet and it is read in a contiguous manner?

- A. Frame - shift insertion mutation
- B. Frame- shift deletion mutation
- C. Substitution mutation
- D. Both (1) and (2)

Answer: D



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26. The genetic code is

- A. Specific, unambiguous and degenerate
- B. Ambiguous, specific and degenerate
- C. Triplet, universal and non-degenerate
- D. Universal, ambiguous and non-degenerate

Answer: A



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27. Which of the following structure of adapter molecule looks like a clover leaf?

A. Secondary

B. Tertiary

C. Primary

D. Quaternary

Answer: A



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28. The concept of "biological species" was proposed by

A. Davis and Heywood(1963)

B. Mayr(1942)

C. Simpson(1961)

D. Professor A.D. Bradshaw

Answer: B



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29. Which of the following can produce fertile hybrids in captivity?

- A. *Panthera leo* and *Panthera tigris*
- B. Mallard and the Pintail Duck
- C. Polar bear and Alaskan brown bear
- D. All of these

Answer: D



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30. Which of the following is the basic unit of classification?

A. Individual

B. Population

C. Species

D. Sub-species

Answer: C



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31. If two species have different flowering time, this is known as

- A. Ecological isolation
- B. Temporal isolation
- C. Behavioural isolation
- D. Gametic isolation

Answer: B



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32. Correct the match

A. Devonian — Seed fern

B. Triassic — Cycads, conifers, ferns

C. Carboniferous — Reptiles

D. Silurian — Dicotyledons

Answer: C



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33. Choose the correct sequence of evolution of plants

A. Rhynia to Psilophyton to

Progymnosperm to Seed fern

B. Rhynia to Psilophyton to Seed fern to

Progymnosperm

C. Progymnosperm to Rhynia to

Psilophyton to seed fern

D. Progymnosperm to Psilophyton to
Rhynia to Seed fern

Answer: A



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34. Choose the correct statement

A. Invertebrates evolved about 700 mya

B. Jawless fishes probably evolved about
500 mya

C. The lobe fin fishes like Coelacanth are thought to have evolved into the first amphibians

D. First eukaryotic probably evolved one billion year ago

Answer: C



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35. Which of the following is considered as common ancestor of man and apes?

A. Shivapithecus

B. Homo habilis

C. Australopithecus

D. Dryopithecus

Answer: D



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36. Which of the following human ancestor started the use of fire?

- A. First Ape-man
- B. Handy man
- C. Java ape man
- D. Neanderthal man

Answer: C



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37. Choose the correct statement w.r.t.

Australopithecus africanus

A. It had a height of about 1.5 meters

B. Quadrapedal locomotion

C. Only vegetarian food habit

D. Raymond Dart (1924) discovered to the

fossil from pliocene rocks near Tuang in

Heidelberg, Germany

Answer: A



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38. Which of the following is the most primitive ancestor of man?

A. Australopithecus afarensis

B. Homo erectus

C. Homo habilis

D. Homo sapiens

Answer: C



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39. Read the following (a) Discovered by L.S.B. Leaky (b) Probably did not eat meat (c) Was capable of making tool (d) Started community life in caves The above features are of

A. Homo habilis

B. Australopithecus

C. Sinanthropus pekinesis

D. Homo sapiens

Answer: A



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40. Choose the incorrect match

A. Peking man — W.C. Pei

B. Neanderthal man — C. Fuhlrott

C. Java ape man — Eugene Dubois

D. Cro-magnon man — Mary Leaky

Answer: D



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41. Cro-magnon man emerged about

A. 34000 years ago in Pleistocene epoch

B. 25000 years ago in Pleistocene epoch

C. 1500 years ago in Pleistocene epoch

D. 34000 years ago in Holocene epoch

Answer: D



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42. According to fossils discovered up to present time origin and evolution of man was started from

A. Asia

B. South America

C. Africa

D. India

Answer: C



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43. Lock jaw is a characteristic feature of which of the following disease?

A. Tetanus

B. Leprosy

C. Cholera

D. Bubonic plague

Answer: A



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44. Which of the following disease is not caused by RNA virus?

A. Measles

B. Dengue

C. Poliomyelitis

D. Chicken pox

Answer: D



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45. (a) Fever and appearance of rash on body
(b) Rashes come out in crops (c) Rash appears first on trunk then on limbs and face (d) Caused by dsDNA virus Above mentioned characteristics describe which of the following disease?

A. Small pox

B. Chicken pox

C. Measles

D. Mumps

Answer: B



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46. Which of the following is an incorrect match between virus, genome and its mode of transmission?

A. Hepatitis A virus — ss RNA — Faeco-oral route

B. Hepatitis B virus — ds RNA — Sexual contact

C. Polio virus — ss RNA — Faeco-oral route

D. Paramyxovirus — ss RNA — Saliva of
infected person

Answer: B



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47. Which of the following is not a viral disease?

A. Chikungunya

B. Hepatitis-B

C. Mumps

D. Hansen's Disease

Answer: D



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48. Which of the following is correct statement?

A. Mumps is a bacterial infection which causes swelling in parotid glands

B. Widal test is used for confirmation of infection by *Salmonella typhi*

C. Koch's disease is mainly caused by toxin tuberculin which is released by *Yersinia pestis*

D. Polio is caused by ds RNA virus which infect the CNS

Answer: B



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49. In which of the following infection occur in alveoli of the lungs?

- A. Rhinitis
- B. Pneumonia
- C. Common cold
- D. Both (2) and (3)

Answer: B



50. Which of the following is not included in symptoms of tuberculosis?

- A. Sputum containing blood
- B. Excessive fatigue
- C. Night sweating and rapid pulse
- D. Appearance of red patches on skin which turn black and ultimately leads to death

Answer: D



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51. Among the following diseases Poliomyelitis, Chikungunya, Hansen's disease, cholera, Mumps, Hepatitis A. How many of the above, mentioned disease is caused by virus?

A. 6

B. 3

C. 4

D. 2

Answer: C



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