



BIOLOGY

BOOKS - JMD BIOLOGY (PUNJABI ENGLISH)

EVOLUTION

Exercise

1. The wings of a bird and the wings of an insect are

A. phylogenetic structures and represent
divergent evolution

B. homologous structures and represent
convergent evolution

C. homologous structures and represent
divergent evolution

D. analogous structures and represent
convergent evolution

Answer: D



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2. Industrial melanism is an example of

A. Mutation

B. Neo Lamarckism

C. Neo Darwinism

D. Natural selection

Answer: D



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3. Which one is reptilian ancestor of birds?

A. Hesperornis

B. Ichthyornis

C. Archaeopteryx

D. Lychaenops

Answer: C



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4. Which of the following structures is homologous to the wing of a bird?

A. Wing of a Moth

B. Hind limb of Rabbit

C. Flipper of Whale

D. Dorsal fin of a Shark

Answer: C



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5. Following are the two statements regarding the origin life

(a) The earliest organisms that appeared on the earth were non green and presumably anaerobes.

(b) The first autotrophic organisms were the chemoautotrophic that never released oxygen. Of the above Statements which one of the following options is correct?

A. (b) is correct but (a) is false

B. Both (a) and (b) are correct

C. Both (a) and (b) are false

D. (a) is correctly but (b) is false

Answer: B



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6. Analogous structures are a result of

A. Convergent evolution

B. Shared ancestry

C. Stabilizing selection

D. Divergent evolution

Answer: A



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7. Genetic drift operates in

A. Non reproductive population

B. Slow reproductive population

C. Small isolated population

D. Large isolated population

Answer: C



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8. In Hardy-Weinberg equation, the frequency of heterozygous individual is represented by

A. pq

B. q^2

C. p^2

D. $2pq$

Answer: D



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9. The chronological order of human evolution from early to the recent is

A. (i) Ramapithecus to Homo habilis to

Australopithecus to Homo erectus

B. (ii) Australopithecus to Homo habilis to

Ramapithecus to Homo erectus

C. (iii) Australopithecus to Ramapithecus to

Homo habilis to Homo erectus

D. (iv) Ramapithecus to Australopithecus to

Homo habilis to Homo erectus

Answer: D



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10. Which of the following is the correct sequence of events in the origin of life?

I. Formation of protobionts

II. Synthesis of organic monomers

III. Synthesis of organic polymers

IV. Formation of DNA-based genetic systems

A. II, III, I, IV

B. II, III, IV, I

C. I, II, III, IV

D. I, III, II, IV

Answer: A



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11. The correct sequence of stages in the evolution of modern man is

A. Homo erectus, Australopithecus, Neanderthal man, Cro-Magnon man, Modern man

B. Australopithecus, Homo erectus, Neanderthal man, Cro-Magnon man, Modern man

C. Neanderthal man, Australopithecus, Cro-Magnon man, Homo erectus, Modern

man

D. Australopithecus, Neanderthal man, Cro-

Magnon man, Homo erectus, Modern

man

Answer: B



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12. Documented microfossils have been found

that are as old as

A. 2.5 billion years

B. 3.5 billion years

C. 1.5 billion years

D. 2.5 million years

Answer: B



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13. Which evidence does not favour Lamarckian concept of inheritance of acquired characters?

A. Absence of limbs in snakes

B. Melanisation of Peppered Moth

C. Presence of webbed toes in aquatic birds

D. Lack of pigment in cave-dwelling animals

Answer: B



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14. Among the following sets of examples for divergent evolution, select the incorrect option

- A. Heart of bat, man and cheetah
- B. Brain of bat, man and cheetah
- C. Forelimbs of man, bat and cheetah
- D. Eye of octopus, bat and man

Answer: D



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15. The similarity of bone structure in the forelimbs of many vertebrates is an example of

A. Analogy

B. Convergent evolution

C. Homology

D. Adaptive radiation

Answer: C



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16. According to Hugo de Vries the mechanism of evolution is

A. Saltation

B. Phenotypic variations

C. Multiple steps mutations

D. Minor mutations

Answer: A



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17. Radioactive C - dating and living fossils are used for

A. Biological age

B. Geological age

C. Age of Rock

D. Geographical distribution

Answer: A



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18. Which of the following explained evolution in most acceptable form?

A. Lamarck, Darwin, Hugo de Vries

B. Anaximander, Darwin, Malthus

C. F. Redi, Richter, Cuvier

D. Lamarck, Hardy Weinberg, Darwin

Answer: A



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19. Select the option having correct sequence of geological periods — Permian, Triassic, Jurassic

A. 1 to 2 to 3

B. 3 to 2 to 1

C. 2 to 3 to 1

D. 3 to 1 to 2

Answer: A



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20. What was the reason of mass extinction during Mesozoic era?

A. Due to meteorite falling on earth

B. Due to continental drift

C. Glaciation

D. Volcanic eruption

Answer: A



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21. What is mature graafian follicle ?

A. 

B. 

C. 

D. 

Answer: B

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22. In a species the weight of newborn ranges from 2 to 5 kg. 97% of the newborn with an average weight between 3 to 3.3 kg survive whereas 99% of the infants born with

weights from 2 to 2.5 kg or 4.5 to 5 kg die.

Which type of selection process is taking place?

A. Stabilizing selection

B. Disruptive selection

C. Cyclical selection

D. Directional selection

Answer: A



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23. Which cause speciation according to Hugo de vries ?

A. random and directionless

B. small and directional

C. small and directionless

D. random and directional

Answer: A



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24. Which of the following were present in prebiotic soup?

A. Zn, Fe, Al

B. Proteins, Nucleic acids, Carbohydrates,
Lipids

C. Vitamins

D. None of the above

Answer: B



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25. Hardy Weinberg equilibrium is affected by

A. Natural selection

B. New mutation

C. Genetic drift

D. All of the above

Answer: D



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26. Fill in the blanks:

Homo erectus had a large brain, around
_____.



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27. Fill in the blanks:

The first mammals were like _____.



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28. Fill in the blanks:

Stellar distances are measured in _____.

A. (i) NO Astronomical Unit (AU)

B. (ii) 3 Astronomical Unit (AU)

C. (iii) 1 Astronomical Unit (AU)

D. (iv) 10 Astronomical Unit (AU)

Answer:



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29. Fill in the blanks:

Galaxies contain stars and clouds of _____
and _____.



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30. Analogous structures are a result of



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31. Fill in the blanks:

Lichens can be used as industrial _____

indicator.



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32. Fill in the blanks:

The original drifted population of an area becomes _____.



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33. Fill in the blanks:

Coelacanth evolved into the _____.



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34. Fill in the blanks:

Dryopithecus was more _____ like.



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35. Fill in the blanks:

Homo sapiens arose in _____.

A. (i) Europe

B. (ii) Middle East

C. (iii) Africa

D. (iv) Asia

Answer:



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36. True and False:

The Neanderthal man used hides to protect their body and buried their dead.



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37. True and False:

Seal is a mammal live wholly in water.



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38. True and False:

Reptiles lay thick shelled eggs which do not dry up in sun.



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39. True and False:

Zosterophyllum was evolved during Devonian period.



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40. True and False:

Change of frequency of alleles in a population interpreted as resulting in evolution.



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41. True and False:

Darwinian variation is large and directionless.



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42. True and False:

Homologous structures are responsible for convergent evolution.



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43. True and False:

Malay Archipelago was the study area of Darwin.



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44. True and False:

A. I. Oparin was native of England.



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45. True and False:

The big-bang theory explains the origin of universe.



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46. What product was formed in the Miller's experiment in the direction of origin of life on earth?



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47. Name of the gases used by Urey and Miller in their experiment.



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48. What are Vestigial organs? Give examples.



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49. Define evolution in three words.



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50. Which technique is used to know the age of fossils?



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51. What is genetic drift?



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52. Give one example of adaptive radiation.





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53. Give the main points of Darwin's theory of evolution.



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54. What is meant by connecting link? Give examples.



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55. State and explain Hardy Weinberg's Principle



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56. What is founder effect?



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57. Explain three morphological evidences in support of evolution.



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58. Hormone responsible for ovulation is

A. a. LH

B. b. FSH

C. c. progesterone

D. d. testosterone

Answer: B



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59. What is the function of vasa efferentia ?



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60. What is the function of vas deferens ?



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61. Which of the following is included under barrier methods of birth control?

A. a. vaginal pouch

B. b. Diphragm

C. c. Cervical cap

D. d. All of these

Answer:



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62. Copper-T/ loop prevents

A. a. cleavage

B. b. fertilisation

C. c. ovulation

D. d. zygote formation

Answer:



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63. Refer to the figures given below and answer the question that follows :

Recognise and explain the process by which Tasmanian wolf evolved.



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64. Refer to the figures given below and answer the question that follows :

Give one example of an animal that has evolved along with Tasmanian wolf.



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65. Testes of man are found

A. a. inside abdominal cavity

B. b. above dorsal aorta

C. c. in scrotal sacs

D. d. on the sides of kidney

Answer:



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66. How is the age of living tree estimated?



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67. Name the process to estimate the age of a fossil.



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68. Who proposed that the first form of the could have come from pre-existing non-living organic molecules ?

A. a.S,L miller

B. b. oparin and haldane

C. c. charles darwin

D. d. alfred wallace

Answer:



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