



BIOLOGY

NEET & AIIMS

MOCK TEST 41

Example

1. According to Robert May, the global species diversity is about:

A. 18 million

B. 7 million

C. 1.5 million

D. 1.7 million

Answer: B



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2. Arrange the following in order of increasing diversity of birds A) New York B) India C) Columbia D) Greenland

A. Dlt Blt Clt A

B. Alt B It DltC

C. Dlt Alt BltC

D. Blt Alt Dlt C

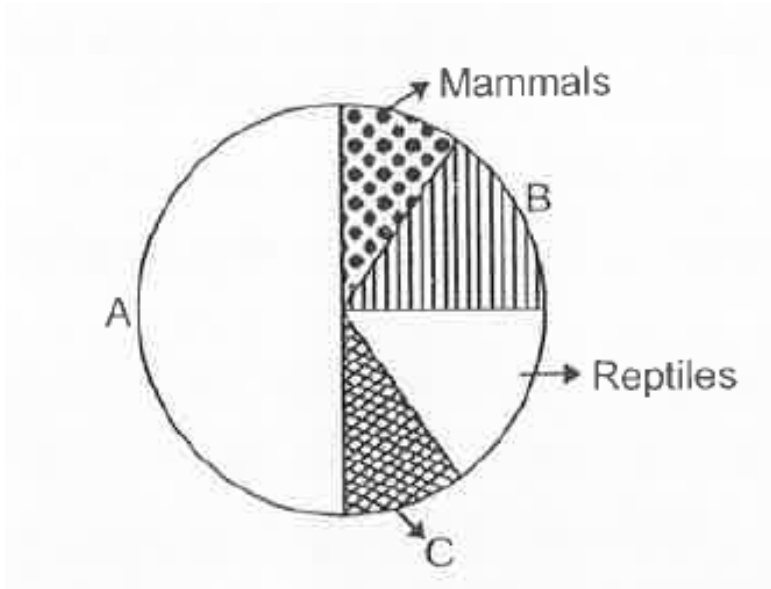
Answer: C



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3. Observe the given pie chart representing biodiversity of different vertebrates. Choose

the correct option for (A-C) A B C



A. fishes Birds amphibians

B. fishes molluscs amphibians

C. insects Birds fishes

D. insect crustaceans molluscs

Answer: A



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4. On a logarithmic scale the correct representation of species area relationship is represented by the equation

A. $\log S = \log C - Z \log A$

B. $\log S = \log C + Z \log A$

C. $\log A = \log C + Z \log S$

D. $\log S = \log A + Z \log C$

Answer: B



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5. Tropics are rich in biodiversity- choose correct option that explain the reason for the given statement A) frequent disturbance such as glaciation has occurred for millions of years in tropics. B) relatively more constant, predictable and less seasonal tropical environment. C) more solar energy received by tropics.

A. A and B

B. B and C

C. A, B and C

D. A and C

Answer: B



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6. statement A: in India, biosphere reserve ecologically unique and legally protected biodiversity rich regions. Statement B:

biodiversity hotspots have high degree of
endemism.

A. only statement A is correct

B. only statement B is correct

C. both statements A and B are correct

D. both statements A and B are in correct

Answer: C



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7. How many among the following are Ex-situ and In-situ conservation strategies respectively.

Sand, Faecal matter, Paper fibres, Nitrates, Calcium, Silt

A. 5,4

B. 4,5

C. 6,3

D. 3,6

Answer: A





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8. Which of the following is a sacred plant?

A. Ocimum

B. azadirachta

C. Mangifera

D. Acacia

Answer: A



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9. the Earth Summit held on Rio de Janeiro in 1992 was called to

A. discuss method to control pollution

B. discuss sustainable development

C. take appropriate measure for conservation of biodiversity and sustainable utilisation of its benefit

D. discuss the impact of deforestation on ecosystem

Answer: C



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10. Read the following statement A) 6th mass extinction species is being caused anthropogenically and is 10 time faster than the rate of natural extinctions. B) passenger pigeon have become extinct due to over Exploitations of humans. C) Norway has lower ecosystem diversity than India. D) more than 50000 varieties of mango occur in India.

choose the option with correct sets of statement

A. A and D

B. A and B

C. B and C

D. C and D

Answer: C



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11. Exotic species have the maximum harmful impact of island ecosystem because of their

A. small size

B. small number of indigenous species

C. More productivity

D. both 1 and 2

Answer: D



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12. According to Rivel popper hypothesis, rivets on the wings represent

A. species with larger body size

B. key species

C. species that drive major ecosystem
function

D. both (2) & (3)

Answer: D



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13. mark the incorrect statement regarding biodiversity hotspots

A. these region have high level of species

richness and high degree of Endemism

B. The 34 biodiversity hotspots covers

almost 30% of Earth's land surface

C. these hotspots are also region of

accelerated Habitat loss

D. Western Ghat in India is a biodiversity

hotspot

Answer: B



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14. in global plant diversity, _____ are the taxonomic group which are most species diverse.

A. fungi

B. angiosperms

C. algae

D. gymnosperms

Answer: B



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15. match the following columns and select the correct option

A. a(ii), b(iii), c(iv), d(i)

B. a(iii), b(iv), c(ii), d(i)

C. a(iii), b(ii), c(iv), d(i)

D. a(i), b(iv), c(ii), d(iii)

Answer: B



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16. vehicles treated with catalytic converter should use lead free petrol because

A. lead enhances the activity of catalytic converter

B. lead inactivates the catalyst

C. lead oxidises the hydrocarbons

D. lead attracts pollutants from air

Answer: B



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17. CNG is better than diesel because (a) it is cheaper (b) burns most efficiently (c) can be siphoned off

A. All except (a)

B. All except (b)

C. All except (c)

D. only (b)

Answer: C



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18. Snow blindness is caused by

A. UV-A

B. UV-B

C. UV-C

D. all except (2)

Answer: B



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19. how many of the following impurities is/are in the form of colloidal material in domestic

sewage?

Hotspots, Seed banks, Aquaria, Sanctuaries, Home gardens, Biosphere reserves, Zoological parks, National parks, Botanical gardens

A. one

B. two

C. three

D. four

Answer: B



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20. which of the following secondary pollutants ? (a) CO_2 (b) ozone (c) PAN (d) CO

A. (a) & (b)

B. (b) & (c)

C. (c) &(d)

D. (a) &(d)

Answer: B



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21. Choose the correct option w. r. t the statement given below. 'rise in temperature is leading to deleterious change in the

environment and resulting in odd climates changes'

A. ozone hole

B. global warming

C. soil erosion

D. biomagnification

Answer: B



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22. Which of the following is not an effects of noise pollution?

- A. Sleeplessness
- B. Altered breathing pattern
- C. skin ageing and cancer
- D. impaired hearing ability

Answer: C



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23. Measure of _____, gives the estimate amount of biodegradable organic matter in sewage water.

A. Biomagnification

B. BOD

C. SPM

D. all except (2)

Answer: B



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24. Excessive growth of planktonic algae due to presence of large amounts of nutrients in water causing a distinct colouration of water is known as

A. Biomagnification

B. Algal bloom

C. Eutrophication

D. Green muffler

Answer: B



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25. Blue-baby syndrome is caused by drinking water contaminated with

A. Carbonates

B. Phosphates

C. Sulphates

D. Nitrates

Answer: D



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26. In which year the Water (prevention and Control of Pollution) Act was passed by the government of India to safegaurd our water resources?

A. 1974

B. 1981

C. 1987

D. 1994

Answer: A



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27. Select the mismatched pairs w.r.t. relative contribution of various green house gases to total global warming: (a) CFCs - 20% (b) N_2O - 6% (c) Carbon dioxide - 60% (d) Methane - 14%

A. (a) and (c)

B. (b) & (c)

C. (b) & (d)

D. (a) & (d)

Answer: D



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28. How many among the following are consequences of deforestation?

Enhanced carbon dioxide concentration,
Reduced soil erosion, Habitat destruction,
Loss of biodiversity, Desertification,
Disturbed hydrologic cycle

A. 6

B. 5

C. 4

D. 3

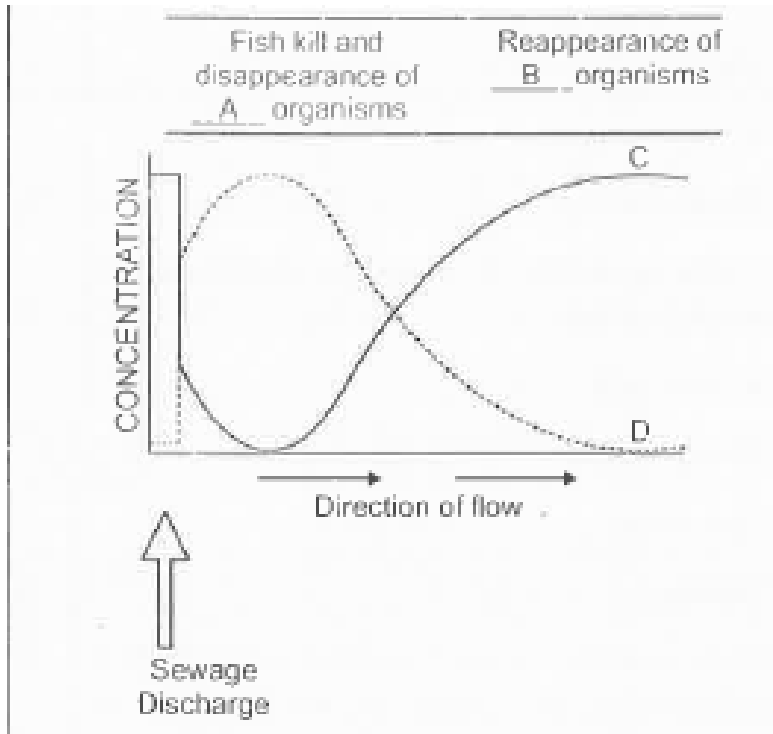
Answer: B



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29. The given graph depicts the depicts the effect of sewage discharge on some important characteristics of a river. Select the correct

label for A,B,C and D



A. Clean water clean water Dissolved

oxygen BOD

B. Marine water Marine water BOD

Dissolved oxygen

C. Clean water Marine water BOD Dissolved
oxygen

D. Marine water Clean water Dissolved
oxygen BOD

Answer: A



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30. Read the following statement (A)
Biomagnification occurs because a toxic
substance accumulated by an organism

cannot be metabolised or excreted and is thus passed on to the most higher trophic levels. (B) FOAM are responsible for the upkeep of the marshland developed in town of Ercala for integrated waste water treatment. (C) E.Coli indicates water pollution by faecal matter. Select the option for the set of all the correct statements.

A. (A), (B) & ©

B. (A) & (B)

C. (B) & ©

D. (A) &(C)

Answer: A



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