



BIOLOGY

BOOKS - TRUEMAN BIOLOGY

BIODIVERSITY AND CONSERVATION

Multiple Choice Questions

1. Biodiversity Act of India for not allowing any foreigner to exploit Indian biodiversity was passed in

A. 1996

B. 2006

C. 2002

D. 1992

Answer: C



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2. World Biodiversity Day is celebrated on

A. 22nd April

B. 16th September

C. 5th June

D. 22nd May

Answer: D



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3. Number of known and described species is

A. 1.7 – 1.8 million

B. 1.7 – 1.8 lac

C. 1.7 – 1.8 billion

D. 17 – 18 million

Answer: A



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4. The basis of evolution of new species is

- A. genetic diversity
- B. species diversity
- C. community diversity
- D. all of these

Answer: A



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5. Genetic diversity is related to

- A. types of species within a community
- B. types of communities in an area
- C. gene based diversity
- D. diversity and evolution of species with a
genus

Answer: C



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6. Decrease in species diversity in tropical countries is mainly due to

A. urbanisation

B. pollution

C. deforestation

D. soil erosion

Answer: C



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7. In India, we find mangoes with different flavours, colours, fibre content , sugar content and even shelf-life. The large variation is on account of

- A. genetic diversity
- B. species diversity
- C. induced mutation
- D. hybridization

Answer: A



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8. The diversity of the habitats over the total landscape/geographical area is called

A. gamma diversity

B. beta diversity

C. induced diversity

D. delta diversity

Answer: A



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9. A species spread over a large tract with varied environmental conditions will have

- A. higher genetic diversity
- B. uniform gene pool
- C. little genetic diversity
- D. both (2) and (3)

Answer: A



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10. Which of the following is incorrect for the use of biodiversity in modern agriculture ?

A. It can be used as a source of new crops

B. it can be used as a source material for breeding improved varieties

C. it can not be used as a source of food for animals

D. it can be used as a source of new bio-degradable pesticides

Answer: C





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11. Maximum amphibian species are endemic in which biogeographical region of India ?

- A. North East
- B. Western Ghats
- C. Gangetic plain
- D. Islands

Answer: B



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12. Endemism refers to

- A. species confined to that region and not found anywhere else
- B. species not confined to that region and found elsewhere
- C. species of all varieties
- D. none of the above

Answer: A



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13. What percentage of plants (flowering) are endemic to India ?

A. 10 %

B. 33 %

C. 66 %

D. 72 %

Answer: B



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14. The major cause of loss of number of migratory birds is

- A. pesticides
- B. fragmentation or loss of habitat
- C. change in climate
- D. bad weather

Answer: B



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15. According to 2000 IUCN, Red List, how many plant and animal species are treated ?

- A. 5485 plant species and 5611 animals
- B. 5611 plant species and 5485 animals
- C. 5738 plant species and 5738 animals
- D. 1237 plant species and 11046 animals

Answer: B



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16. *MAB* is

A. man and botany

B. man and biosphere

C. man and biotic community

D. man , antibiotic and bacteria

Answer: B



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17. First National Park developed in India is

A. Gir

B. Kaziranga

C. Jim Corbeitt

D. Kanha

Answer: C



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18. First biosphere reserve was established in 1986
at

A. Nilgiri

B. Sunderbans

C. Gulf of Maynamar

D. Nanda Devi

Answer: A



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19. National parks and wild life sanctuaries represent in situ conservation or protect areas.

Which of the following is not the benefit of it ?

A. it can accommodate human caused introduction of alien species

B. it helps to maintain population of native species and subspecies

C. it helps to make possible for species to shift in response to environmental change

D. it can conserve genetic diversity

Answer: A



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20. In a biosphere reserve various zones are designated as

A. core, manipulation and buffer

B. core buffer and consolidation

C. buffer, core and maipulation

D. core, buffer and maipulation

Answer: D



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21. Which of the following nature bounties is used for giving protection to fauna only ?

A. Botanical garden

B. National Park

C. Biosphere Reserve

D. Sanctuary

Answer: D



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22. New approach to conservation is the establishment of

A. sanctuaries

B. biosphere reserve

C. national park

D. reserve forests

Answer: B



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23. Under MAB programme of UNESCO India has identified _____ (no) areas to be declared biosphere reserves

A. 3

B. 14

C. 23

D. 33

Answer: B



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24. A biosphere reserve preserves

A. wild populations

B. traditional life styles of tribals

C. genetic resources of organisms

D. all of above

Answer: D



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25. A national park is an area reserved for betterment of wild life (flora and fauna) where

A. activities of forestry, grazing and cultivation are prohibited

B. grazing is allowed but forestry is prohibited

C. cutting of trees and grazing are allowed but private ownership is not given

D. all of the above

Answer: A



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26. Conservation is

A. not to use natural resources

B. wise use of natural resources

C. less use of natural nonrenewable re-source

D. more use of our resources

Answer: B



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27. Introduction of Nile Perch in Lake Victoria of South Africa resulted in

- A. excessive growth of water weeds
- B. elimination of water weeds
- C. elimination of many species of Chichlid fish
- D. excessive growth of Chichlid fish

Answer: C



28. Unmindful introduction of exotic species affects native species because

(i) competition for food and space is increased

(ii) Prey-predator relations are changed

(iii) New diseases may be caused due to new host parasite interactions

(iv) Exotic species cause mutations in native species

A. All of these

B. Only (i) and (ii)

C. Only (ii) and (iii)

D. (i) , (ii), (iii)

Answer: D



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29. One of the ex situ conservation methods for endangered species is

A. Wild life sanctuaries

B. biosphere reserve

C. Cryopreservation

D. National Park

Answer: C



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30. Ex situ conservation is the term applied to

A. protection of biosphere reserves

B. creation of wildlife sanctuaries

C. prevention of poaching in protected forests

D. breedings of endangered species in
zoological parks

Answer: D



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31. Red Data Book is to maintain Redlist published by

A. WCU (IUCN)

B. CITES

C. WWF-N

D. TRAFFIC

Answer: A



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32. Red list contains information about

A. red flowers

B. red fishes

C. endangered plants and animals

D. all plants and animals

Answer: C



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33. Afforestation should be with

A. exotic species

B. Bamboes

C. Eucalyptus

D. indigenous/endemic species

Answer: D



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34. Which of the following is not a type of in situ conservation ?

A. National Park

B. Sanctuary

C. Botanical garden

D. Biosphere reserve

Answer: C



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35. One of the following is not the major threat category of wild life.

A. Critically endangered

B. Vulnerable

C. Endangered

D. Extinct in the wild

Answer: D



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36. Identify the odd combination of the habitat and the particular animal concerned.

A. Periyar-Elephant

B. Rann of Kutch-Wild Ass

C. Dachigam National Park-Snow Leopard

D. Sunderbans-Bengal Tiger

Answer: C



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37. The Siberian crane from Russia is a regular visitor to the bird sanctuary in one of the following place in India .

A. Lallbagh, Bangalore

B. Vandanthgol sanctuary, Tamil Nadu

C. Ranganathittis sactuary, Karnataka

D. Bharatpur sanctuary, Rajasthan

Answer: D



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38. First 'Earth Summit' at Rio-de-Janeiro (Brazil) held in 1992 was related to

A. soil fertility

B. soil erosion

C. prevention of afforestation

D. conservation of biodiversity

Answer: D



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39. The most serious threat to migratory birds which are vulnerable species is

- A. destruction of habitats
- B. deforestation
- C. human settlements
- D. pollution of oceans

Answer: A



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40. WWF is now called

- A. world wild life fund
- B. world wide fund for nature
- C. world wrestling federation
- D. wonder wash fabric

Answer: B



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41. Which protected animals is the logo/symbol of WWF-N ?

A. Lion

B. Polar Baer

C. Tiger

D. Panda

Answer: D



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42. Which of the following statement is not true for cryopreservation ?

- A. It is conservation, in liquid nitrogen at a temperature of $-196^{\circ}C$
- B. Useful for conserving vegetatively propagated crops like potato
- C. it is ex-situ conservation
- D. it is in-situ conservation

Answer: D



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43. Germplasm conservation at liquid nitrogen at $196^{\circ}C$ temperature is

- A. scarification
- B. stratification
- C. Cryopreservation
- D. none of these

Answer: C



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44. Which is critically endangered animal species ?

A. *Antelope cervicapra* (Black Buck)

B. *Ailurus fulgens* (Red Panda)

C. *Sus salvanius* (Pigmy Hog)

D. *Berberis nilghiriensis*

Answer: C



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45. Which of the following consists of maximum number of vulnerable species ?

A. Angiosperms

B. Reptiles

C. Amphibians

D. Birds

Answer: A



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46. Genetic biodiversity in agricultural crops is threatened by

A. introduction of high yielding varieties

- B. intensive use of fertilizers
- C. extensive intercropping
- D. intensive use of biopesticides

Answer: A

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47. Which will cause most serves depletion of biodiversity ?

- A. Natural extinction
- B. Mass extinction

C. Anthropogenic extinction

D. none of the above

Answer: C



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48. Which of the following reasons provide criteria for susceptibility to extinction?

(ii) Large body size

(ii) Lower trophic level

(iii) High genetic diversity

(iv) Low reproductive rate

- A. (i) & (iv) only
- B. I, ii , and iv only
- C. ii and iv only
- D. all of the above

Answer: A



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49. The main reason for extinction of species is

- A. hunting
- B. over-exploitation by man

C. pollution

D. destruction of habitats

Answer: D



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50. Forest management is concerned with

A. Apiculture

B. Agriculture

C. Silviculture

D. Sericulture

Answer: C



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51. Trade in shahtoosh (expensive wool) is banned in India (except Jammu and Kashmir) due to illegal poaching of

- A. Hangul
- B. Chiru
- C. Pashmina goat
- D. Kashmiri sheep

Answer: B



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52. Quinine is got from

- A. root of Cinchona
- B. bark of Cinchona stem
- C. leaf of Cinachona
- D. flower of Cinchona

Answer: B



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53. Due to over exploitation one of endangered species of Indian medicinal plants is that of

A. Garlic

B. Nepenthes

C. Podophyllum

D. Ocimum

Answer: C



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54. Management of biosphere for providing maximum benefit to the present generation and also maintaining its potential for future generation, is the theme of

A. afforestation

B. conservation

C. deforestation

D. population

Answer: B



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55. Endemic plants are those plants which grow in

- A. fresh water lakes
- B. shady places
- C. tissues of other plants
- D. geographically limited areas

Answer: D



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56. Ecofriendly method is

A. use of CNG (Compressed Natural Gas) in automobiles

B. energy planation

C. both (1) and (2)

D. use of sulphur rich petrol

Answer: C



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57. Ozonosphere is a part of

A. stratosphere

B. mesosphere

C. thermosphere

D. ionosphere

Answer: A



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58. Choose the correct statement

A. Out of the current species discovered plants are more abundant than animals

B. Robert May estimates the global species diversity to be about 17 million

C. Western Ghats (India) have a greater amphibian diversity than Eastern Ghats

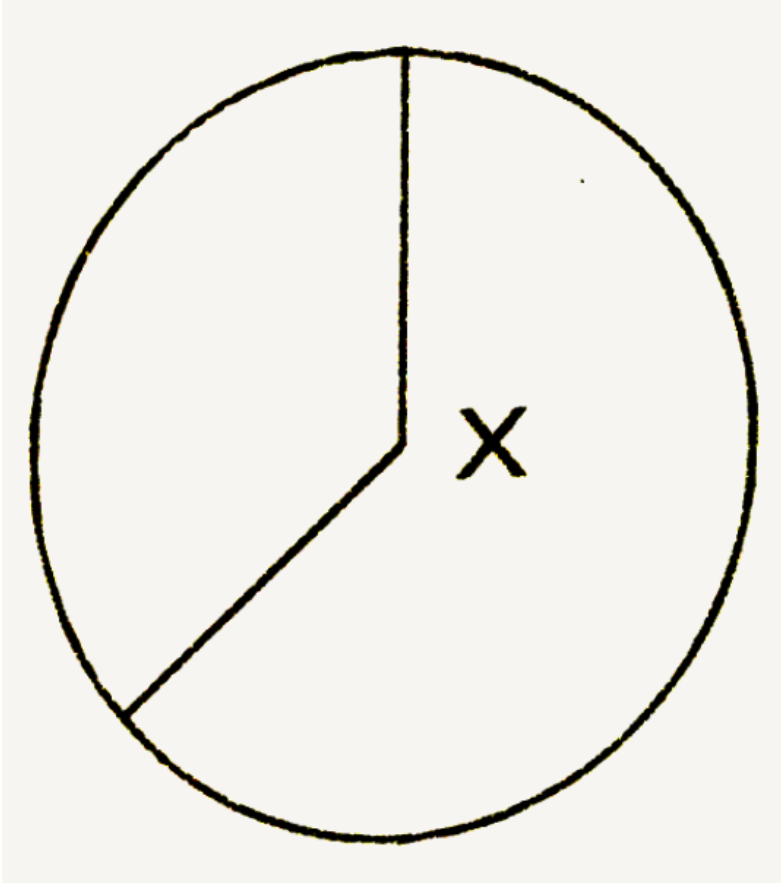
D. India has more than 50,000 genetically different strains of Mango

Answer: C



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59. If the given diagram shows global biodiversity of animals then which category is 'x' ?



A. Mollusca

B. Amphibia

C. Insects

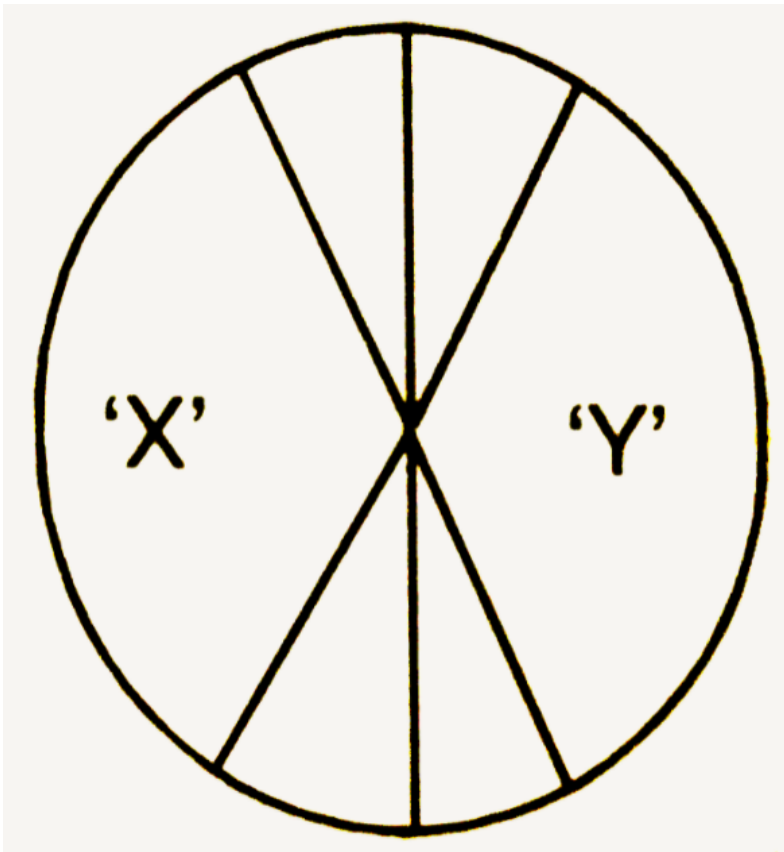
D. Crustaceans

Answer: C



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60. If the given diagram shows global biodiversity of plants, then which option correctly represents 'X' & 'Y' ?



A. X' Fungi, 'Y' Algae

B. X' Angiosperms, 'Y' Mosses

C. X' Ferns, 'Y' Algae

D. X' Fungi, 'Y' Angiosperms

Answer: D



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61. How many megadiversity countries are there in the world ?

A. 12

B. 21

C. 24

D. 8

Answer: A



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62. Choose how many of the given statement are not correct about the Tropics ?

- (i) Greater species diversity compared to Temperate
- (ii) Subjected to frequent glaciations in the past
- (iii) Great seasonal variations are seen here
- (iv) Environment is relatively constant

A. One

B. Two

C. Three

D. Four

Answer: B



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63. In the given equation relating to species Area relationship , what does 'Z' stand for ?

$$\log S = \log c + z \log A$$

A. Progression coefficient

B. Resistance coefficient

C. Regression coefficient

D. Biodiversity coefficient

Answer: C



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64. If there are two communities A and B of plants.

In the year 2010 there was a similar natural disturbance in both the communities . Depending on the given data choose how many are the correct statements ?

(i) A and B are equally stable.

(ii) A has more species than B.

(iii) A and B have equal diversity of species

(vi) B is more stable than A

	Year 2009	Year 2010	Year 2011	Year 2012
Biomass (Total)	$A = 1000$ Units	$A = 800$ Units	$A = 950$ Units	$A = 1000$ Units
	$B = 1000$ Units	$B = 100$ Units	$B = 500$ Units	$B = 100$ Units

A. One

B. Two

C. Three

D. None

Answer: A



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65. In the river popper hypothesis. The word rivet refers to

A. Community

B. Ecosystem

C. Species

D. Biomass

Answer: C



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66. The subspecies - 'Javan' and 'Bali' refer to which animal ?

A. Tiger

B. Lion

C. Panda

D. Indian Rhino

Answer: A



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67. In the IUCN red book which category has maximum extinction of species in the last 500 years ?

A. Vertebrates

B. Invertebrates

C. Plants

D. Birds

Answer: B



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68. Out of the given causes, which one is the most important cause driving animals and plants to extinction?

A. Alien species invasions

B. Over-exploitation

C. Habitat loss

D. Co-extinctions

Answer: C



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69. *Ectopistes migratorius* extinction is mainly due to which of the following reasons

- A. Habital loss
- B. Co-extinction
- C. Over-exploitation
- D. Alien-species invasion

Answer: C



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70. The extinction of many species of Cichlid fish in Lake victoria is mainly attributed to

- A. Habital loss
- B. Co-extinction
- C. Over-exploitation
- D. Alien-species invasion

Answer: D



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71. All biodiversity hotspots put together cover about how much percent of the earth's land area ?

A. 10 %

B. 20 %

C. 2 %

D. 0.2 %

Answer: C



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72. How many out of these are correct for The Earth Summit ?

(i) Held at Johannesburg ,South Africa

(ii) In 1992

(iii) Conservation of biodiversity

(iv) Collective responsibility of Nations

A. One

B. Two

C. Three

D. Four

Answer: C



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73. Which one is famous for hosting thousands of migratory birds coming from Siberia in winter ?

- A. Kanha National Park , Balaghat, M.P.
- B. Keoladeo National Park, Bharatpur, Rajasthan
- C. Kaziranga National Park, Assam
- D. Corbett National Park, Nainital, Uttara-Khand

Answer: B



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74. Second trophic level in a lake is

A. Phytoplankton

B. Zooplankton

C. Benthos

D. Fishes

Answer: B



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75. Who gave the 'Rivet Popper hypothesis" ?

A. E.P. Odum

B. Ram Deo Misra

C. Paul Ehrlich

D. A. Tansley

Answer: C



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76. Evil Quartet is related with

A. Loss of biodiversity

B. Loss of alien species

C. Loss of standing crop

D. Loss of climax community

Answer: A



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77. How many hot spots have been identified in the world ?

A. 10

B. 34

C. 20

D. 25

Answer: B



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78. Which one of the following expanded forms of the following acronyms is correct ?

- A. IPCC = International Panel for Climate Change
- B. USEP - United Nations Enviornmetal Policy
- C. EPA = Enviornmental Pollution Agency

D. IUCN = International Union for Conservation
of Nature and Natural Resources

Answer: D



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79. Which one of the following have the highest number of species in nature?

A. Fungi

B. Insects

C. Birds

D. Angiosperms

Answer: B



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80. Biodiversity of a geographical region represents

A. Endangered species found in the region

B. The diversity in the organisms living in the region

C. Genetic diversity present in the dominant species of the region

D. Species endemic to the region

Answer: B



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81. Brow antlered deer is found in

A. Kaziranga National Park

B. Corbett National Park

C. Keibul Lamjao National Park

D. Bandipur National Park

Answer: C



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82. The only Floating National Park in the world is

- A. Keibul Lamjao National Park
- B. Keoladeo Ghana National Park
- C. Chilka Lake Sanctuary
- D. Nal Sarovar Sanctuary

Answer: A



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83. Sacred groves are found in

A. Meghalaya

B. Punjab

C. Jammu and Kashmir

D. Bihar

Answer: A



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84. Who have recently tried to put price tag on nature's life support services ?

- A. Robert Constanza and his colleagues
- B. Nile Perch and his collegus
- C. Herbert Boyer and his colleagues
- D. Ram Deo Mishra and his colleagues

Answer: A



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85. India now has:

- A. 10 Biosphere reserves , 50 National parks, and
400 Wildlife sanctuaries
- B. 14 Biosphere reserves , 50 National parks, and
400 Wildlife sanctuaries
- C. 10 Biosphere reserves , 90 National parks, and
448 Wildlife sanctuaries
- D. 14 Biosphere reserves , 90 National parks, and
448 Wildlife sanctuaries

Answer: D



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86. Which of these is associated with 'Chipko movement'?

A. Sundarlal Bahuguna

B. Rajiv Gandhi

C. Ramdev Mishra

D. Indira Gandhi

Answer: A



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87. 5th June is

- A. World Typhoid day
- B. World AIDS day
- C. World Environment day
- D. World Tobacco day

Answer: C



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88. The "World Intellectual Property Day" is observed on

- A. February 29th

B. June, 3th

C. April 26th

D. September, 5th

Answer: C



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89. The highest number of species in the world is represented by

A. Mosses

B. Algae

C. Lichens

D. Fungi

Answer: D



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90. Which one of the following areas in India is a hotspot of biodiversity ?

A. Gangetic Plain

B. Sunderbans

C. Western Ghats

D. Eastern Ghats

Answer: C



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91. Select the correct statement about biodiversity

A. Western Ghats have a very high degree of species richness and endemism

B. Conservation of biodiversity is just a fad pursued by the developed countries

C. The desert areas of Rajasthan and Gujarat have a very species as well as numerous rare animals

D. Large scale plating of Bt cotton has no adverse effect on biodiversity

Answer: A



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92. Sacred groves are specially useful in

A. Year round flow of water in rivers

B. Conserving rare and threateneed species

C. Ganerating environmental awareness

D. Preventing soil erosion

Answer: B



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93. Kaziranga wild life sanctuary is home for

A. Golden langur

B. Water birds

C. Rhino

D. Porcupine

Answer: C



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94. Which region on the planet earth is rich in species diversity

- A. North pole
- B. Temperate region
- C. Tropical region
- D. South pole

Answer: C



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95. Arrange in ascending order on the basis of number in Indian

(1) Biosphere reserves

(2) Hotspots

(3) National Parks

(4) Wildlife sanctuaries

A. $b \rightarrow a \rightarrow c \rightarrow d$

B. $b \rightarrow c \rightarrow d \rightarrow a$

C. $a \rightarrow b \rightarrow c \rightarrow d$

D. $d \rightarrow c \rightarrow b \rightarrow a$

Answer: A



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96. Which one of the following is not used for ex situ plant conservation

A. Shifting cultivation

B. Botanical Gardens

C. Fields gene banks

D. Seed banks

Answer: A



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97. The organization which publishes the Red List species is

A. WWF

B. ICFRE

C. IUCN

D. UNEP

Answer: C



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98. A species facing extremely high risk of extinction in the immediate future is called

- A. Extinct
- B. Vulnerable
- C. Endemic
- D. Critically endangered

Answer: D



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99. Cryopreservation of gametes of threatened species in viable and fertile condition can be referred to as

- A. Advanced ex-situ conservation of biodiversity
- B. In situ conservation by sacred groves
- C. In situ cryo-conservation of biodiversity
- D. In situ conservation of biodiversity

Answer: A



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100. In which of the following both pairs have correct combination ?

A. In situ conservation : Cryopreservation

Ex situ conservation, Wildlife Sanctuary

B. In situ conservation : Seed Bank

Ex situ conservation, National Park

C. In situ conservation : Tissue culture

Ex situ conservation, Sacred groves

D. In situ conservation : National Park

Ex situ conservation, Botanical Garden

Answer: D



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101. The species confined to a particular region and not found elsewhere is termed as

A. Keystone

B. Alien

C. Endemic

D. Rare

Answer: C



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102. Which is the National Aquatic Animal of India

- A. River dolphin
- B. Blue whale
- C. Sea-horse
- D. Gangetic shark

Answer: A



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103. Which of the following is the most important cause of animals and plants being driven to extinction

- A. Alien species invasion
- B. Habitat loss and fragmentation
- C. Co-extinctions
- D. Over-exploitations

Answer: B



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104. Joint Forest Management Concept was introduced in India during

A. 1970s

B. 1980s

C. 1990s

D. 1960s

Answer: B



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105. How many hot spots of biodiversity in the world have been identified till date by Norman Myers ?

A. 17

B. 25

C. 34

D. 43

Answer: C



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106. Which of the following is correctly matched ?

A. Aerenchyma-Opuntia

B. Age pyramid-Biome

C. Parthenium hysterothorus-Threat to
biodiversity

D. Stratification-Population

Answer: C



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107. Red list contains data or information on

- A. All economically important plants
- B. Plants whose products are in international trade
- C. Threatened species
- D. Marine vertebrates only

Answer: C



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108. Which of the following National Parks is home to the famous musk deer or hangul

A. KeibulLamjao National Park , Manipur

B. Bandhavgarh National Park, Madhya Pradesh

C. Eaglenest Wildlife Sanctuary, Arunachal Pradesh

D. Dachigam National Park, Jammu and Kashmir

Answer: D



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109. Alexander Von Humbolt described for the first time

- A. Ecological Biodiversity
- B. Laws of limiting factor
- C. Species area relationships
- D. Population Growth equation

Answer: C



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110. Which one of the following is related to Ex-situ conservation of threatened animals and plants?

- A. Wildlife Safari Park
- B. Biodiversity hot spots
- C. Amazon rainforest
- D. Himalayan region

Answer: A



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111. The region of Biosphere Reserve which is legally protected and where no human activity is allowed is known as

- A. Core zone
- B. Buffer zone
- C. Transition zone
- D. Restoration zone

Answer: A



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112. All of the following are included in 'Ex -situ conservation except'

- A. Seed banks
- B. Botanical gardens
- C. Sacred gorges
- D. Wildlife safari parks

Answer: C



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