

Examination: **Ph.D. Zoogeography****Section 1 - Section 1****Question No.1**

4.00

Bookmark ☐

..... Published the first comprehensive work, recognizing five depth zones and 25 faunal provinces along the coasts of the continents.

- ☐ James Dana
- ☐ Edward Forbes
- ☐ Edward O. Wilson
- ☐ Albert Günther

Question No.2

4.00

Bookmark ☐

Which one of the following is not observed in biodiversity hotspots?

- ☐ Accelerated species loss
- ☐ Lesser inter-specific competition
- ☐ Endemism
- ☐ Species richness

Question No.3

4.00

Bookmark ☐

Buffon's Law applied to plants as well as to animals, and also applied to any region of the world that was separated from others by

- ☐ Longitudes
- ☐ Altitudes
- ☐ Barriers of geography or climate
- ☐ Latitudes

Question No.4

4.00

Bookmark ☐

Identify the adverb in the following sentence:
We started early in order to see the sunrise.

- ☐ to see
- ☐ in order
- ☐ early
- ☐ started

Question No.5

4.00

Bookmark ☐

Parallelism is

- ☐ adaptive divergence of widely separated species
- ☐ adaptive divergence
- ☐ adaptive convergence of closely related groups
- ☐ adaptive convergence of widely different species

Question No.6

4.00

Bookmark ☐

Animals found in every part of the world are said to be, while those which are restricted are called as

- ☐ Stenotopic, Cosmopolitan
- ☐ Discontinuous, Ubiquitous
- ☐ Cosmopolitan, Endemic
- ☐ Cosmopolitan, Stenotopic

Question No.7

4.00

Bookmark ☐

Allen's Rule for the mammals from colder climates defines

- ☐ longer ears and shorter limbs
- ☐ shorter ears and longer limbs
- ☐ shorter ears and shorter limbs
- ☐ longer ears and longer limbs

Question No.8

4.00

Bookmark ☐

Conservation for both ecological and human benefits has been dubbed

- ☐ homo-ecological conservation.
- ☐ eco-sapien conservation.
- ☐ biocultural restoration.
- ☐ humanistic ecology.

Question No.9

4.00

Bookmark ☐

_____ is most likely a cosmopolitan species?

- ☐ penguins
- ☐ ostriches
- ☐ crows
- ☐ humpback whale

Question No.10

4.00

Bookmark ☐

The Himalaya Mountains were created by the joining of which two faunal realms?

- ☐ Nearctic and Palearctic
- ☐ Palearctic and Oriental
- ☐ Palearctic and Ethiopian
- ☐ Nearctic and Oriental

Question No.11

4.00

Bookmark ☐

The Galapagos are a group of islands.

- ☐ Sixteen
- ☐ Eighteen
- ☐ Eleven
- ☐ Fourteen

Question No.12

4.00

Bookmark ☐

If BAT= 40, AT= 20 then CAT= ?

- ☐ 43
- ☐ 60
- ☐ 80
- ☐ 50

Question No.13

4.00

Bookmark ☐

Based on the information given, answer the below question.

1. A,B,C,D,E and F are travelling in a bus.
2. There are two reporters, two mechanics, one photographer and one writer in the group.
3. Photographer A is married to D who is a reporter.
4. The writer is married to B who is of the same profession as that of F.
5. A,B,C,D are two married couples and no one in this belong to the same profession.
6. F is the brother of C.

Which of the following is the pair of mechanics?

- ☐ Cannot be determined
- ☐ AF
- ☐ BF
- ☐ CE

Question No.14

4.00

Bookmark ☐

The global distribution of tropical rain forests corresponds to areas where conditions are

- ☐ warm year-round with wet and dry seasons.
- ☐ warm and dry year-round.
- ☐ cool year-round with wet and dry seasons.
- ☐ warm and wet year-round.

Question No.15

4.00

Bookmark ☐

Darwin's finches are a good example of

- ☐ Connecting link
- ☐ Convergent evolution
- ☐ Industrial melanism
- ☐ Adaptive radiation

Question No.16

4.00

Bookmark ☐

Which of the following navigational methods is used by bees?

- ☐ celestial cues from the moon
- ☐ sound waves
- ☐ magnetic cues from the earth
- ☐ celestial cues from the sun

Question No.17

4.00

Bookmark ☐

Maximum species diversity is recorded in

- ☐ Seaweeds
- ☐ Seagrasses
- ☐ Coral reefs
- ☐ Mangroves

Question No.18

4.00

Bookmark ☐

With the exception of the American Opossums all the are crowded into this comparatively limited tract of Australian continent and island.

- ☐ Birds
- ☐ Reptiles
- ☐ Marsupials
- ☐ Placental mammals

Question No.19

4.00

Bookmark ☐

How many bio-geographical regions are present in India?

- ☐ 5
- ☐ 10
- ☐ 12
- ☐ 8

Question No.20

4.00

Bookmark ☐

Statements: All dogs are tall, All cats are tall.

Conclusion:

I. All dogs are cat

II. All cats are dogs

- ☐ If neither I nor II follows
- ☐ If only conclusion I follows
- ☐ If either I or II follows
- ☐ If only conclusion II follows

Question No.21

4.00

Bookmark ☐

According to 2014 IUCN Red List, which of the following vertebrate classes has the largest percentage of threatened species?

- ☐ Amphibians
- ☐ Birds
- ☐ Mammals
- ☐ Reptiles

Question No.22

4.00

Bookmark ☐

Early explorers like Alexander von Humboldt determined latitude and longitude using

- ☐ the position of the stars.
- ☐ the position of the sun and the stars.
- ☐ the position of the moon.
- ☐ the position of the sun.

Question No.23

4.00

Bookmark ☐

Choose the missing term: FLP, INS, LPV, ?

- ☐ ORY
- ☐ UXZ
- ☐ SYZ
- ☐ VXZ

Question No.24

4.00

Bookmark ☐

Madreporite is associated with

- ☐ Digestive system
- ☐ Locomotion
- ☐ Nervous system
- ☐ Haemal system

Question No.25

4.00

Bookmark ☐

The global distribution of tropical rain forests corresponds to areas where conditions are

- ☐ warm year-round with wet and dry seasons.
- ☐ cool year-round with wet and dry seasons.
- ☐ warm and wet year-round.
- ☐ warm and dry year-round.

Question No.26

4.00

Bookmark ☐

If Priya was selected, she _____ a good surgeon.

- ☐ would make
- ☐ would have made
- ☐ can make
- ☐ will make

Question No.27

4.00

Bookmark ☐

Choose the best antonym of the italicized word.

Keerthi did not like her husband being *obsequious* to his boss.

- ☐ indifferent
- ☐ defiant
- ☐ courteous
- ☐ gentle

Question No.28

4.00

Bookmark ☐

Evolution is

- ☐ Development of race
- ☐ History of race
- ☐ History and development of race along with variations
- ☐ Progressive development of a race

Question No.29

4.00

Bookmark ☐

Study of fossils is

- ☐ Ichthyology
- ☐ Saurology
- ☐ Palaeontology
- ☐ Herpetology

Question No.30

4.00

Bookmark ☐

Which one of the following is not observed in biodiversity hotspots?

- ☐ Endemism
- ☐ Species richness
- ☐ Lesser inter-specific competition
- ☐ Accelerated species loss

Question No.31

4.00

Bookmark ☐

Major distribution of vertebrate families can be explained by all of the following EXCEPT:

- ☐ The influence of climate changes such as ice ages.
- ☐ The separation of continental plates during the breakup of Pangaea.
- ☐ The marking of boundaries by passive advertisement.
- ☐ The connection of land bridges between continents.

Question No.32

4.00

Bookmark ☐

Which of the following is NOT a physical barrier to dispersal?

- ☐ Mountains
- ☐ Water currents
- ☐ Humidity
- ☐ Valleys

Question No.33

4.00

Bookmark ☐

Darwin's finches are a good example of

- ☐ Connecting link
- ☐ Convergent evolution
- ☐ Industrial melanism
- ☐ Adaptive radiation

Question No.34

4.00

Bookmark ☐

Phelsuma andamanense Blyth, 1861 is found in

- ☐ Nancowry
- ☐ Car Nicobar
- ☐ Great Nicobar
- ☐ Diglipur

Question No.35

4.00

Bookmark ☐

Choose the correct meaning of the italicized idiom.

The father was right in giving a *piece of his mind* to the son.

- ☐ Speaking sadly
- ☐ Speaking sharply
- ☐ Speaking cheerfully
- ☐ Speaking kindly

Question No.36

4.00

Bookmark ☐

Study the following information carefully and answer the question below it:

Aasha, Bhuvnesh, Charan, Danesh, Ekta, Farhan, Ganesh and Himesh are sitting around a circle, facing the centre. Aasha sits fourth to the right of Himesh while second to the left of Farhan. Charan is not the neighbour of Farhan and Bhuvnesh. Danesh sits third to the right of Charan. Himesh never sits next to Ganesh.

Three of the following are alike in a certain way based on their positions in the seating arrangement and so form a group. Which is the one that does not belong to that group?

- ☐ Ganesh Ekta
- ☐ Himesh Farhan
- ☐ Bhuvnesh Danesh
- ☐ Danesh Charan

Question No.37

4.00

Bookmark ☐

Choose the best synonym of the italicized word.

The security arrangements made for the visiting dignitary were *impeccable*.

- ☐ flawless
- ☐ elaborate
- ☐ tight
- ☐ grand

Question No.38

4.00

Bookmark ☐

Endemic species defines

- ☐ threatened species
- ☐ vulnerable species
- ☐ rare species
- ☐ species localized in a specific region

Question No.39

4.00

Bookmark ☐

Which is not considered as Protected Area under W(P)A, 1972?

- ☐ Biosphere Reserve
- ☐ Wildlife Sanctuary
- ☐ Community Reserve
- ☐ National Park

Question No.40

4.00

Bookmark ☐

Maximum species diversity is recorded in

- ☐ Seaweeds
- ☐ Coral reefs
- ☐ Mangroves
- ☐ Seagrasses

Question No.41

4.00

Bookmark ☐

The equilibrium model of island biogeography predicts _____ rates of extinction on islands _____.

- ☐ higher, farther from a source of colonists
- ☐ lower, farther from a source of colonists
- ☐ lower, with increased area
- ☐ higher, with increased area

Question No.42

4.00

Bookmark ☐

Statement: Among all the articles, Prices of laptops show the highest decline from June 2017 to December 2017.

Assumptions:

I. Comparative prices of all articles were available from June 2017 to December 2017.

II. The prices laptops were higher in the first 6 months than the last 6 months.

- ☐ If neither I nor II is implicit
- ☐ If only assumption I is implicit
- ☐ If both I and II are implicit
- ☐ If only assumption II is implicit

Question No.43

4.00

Bookmark ☐

'Origin' of Species' was written by

- ☐ Wallace
- ☐ Weismann
- ☐ Lamarck
- ☐ Darwin

Question No.44

4.00

Bookmark ☐

Which one is endemic bat of A&N Islands?

- ☐ *Tupaia nicobarica nicobarica*
- ☐ *Macaca fascicularis umbrosa*
- ☐ *Crocidura nicobarica*
- ☐ *Hipposideros ater nicobarulae*

Question No.45

4.00

Bookmark ☐

_____ known as living fossil.

- ☐ Sea cucumber
- ☐ Sea star
- ☐ Feather star
- ☐ Brittle star

Question No.46

4.00

Bookmark ☐

Which of the following is NOT a physical barrier to dispersal?

- ☐ Humidity
- ☐ Valleys
- ☐ Mountains
- ☐ Water currents

Question No.47

4.00

Bookmark ☐

Which of the following statement best describe a climax community?

- ☐ less stable and more diverse
- ☐ more stable and less diverse
- ☐ less stable and less diverse
- ☐ more stable and more diverse

Question No.48

4.00

Bookmark ☐

Which lake zone is most comparable to the marine oceanic zone?

- ☐ epilimnion
- ☐ hypolimnion
- ☐ metalimnion
- ☐ limnetic zone

Question No.49

4.00

Bookmark ☐

MAB programme of UNESCO stands for

- ☐ Man and Biotechnology
- ☐ Man and Biology
- ☐ Man and Biosphere
- ☐ Man and Book

Question No.50

4.00

Bookmark ☐

Reflex ovulation does NOT occur in

- ☐ Mink
- ☐ Cats
- ☐ Rats
- ☐ Rabbits

Question No.51

4.00

Bookmark ☐

The Himalaya Mountains were created by the joining of which two faunal realms?

- ☐ Palearctic and Ethiopian
- ☐ Nearctic and Palearctic
- ☐ Nearctic and Oriental
- ☐ Palearctic and Oriental

Question No.52

4.00

Bookmark ☐

Spilornis elgini (Blyth, 1863) is a endemic _____ of A&N Islands

- ☐ Frog
- ☐ Snake
- ☐ Bird
- ☐ Mammal

Question No.53

4.00

Bookmark ☐

Andaman Islands represent ____ biodiversity hotspot/s?

- ☐ 3
- ☐ 4
- ☐ 2
- ☐ 1

Question No.54

4.00

Bookmark ☐

Early explorers like Alexander von Humboldt determined latitude and longitude using

- ☐ the position of the sun and the stars.
- ☐ the position of the stars.
- ☐ the position of the sun.
- ☐ the position of the moon.

Question No.55

4.00

Bookmark ☐

“Continuity of germplasm” theory was given by

- ☐ Weismann
- ☐ Lamarck
- ☐ Wallace
- ☐ Darwin

Question No.56

4.00

Bookmark ☐

Species occurring in different geographical area are known as

- ☐ neopatric
- ☐ allopatric
- ☐ sympatric
- ☐ sibling

Question No.57

4.00

Bookmark ☐

13, 35, 57, 79, 911, ?

- ☐ 1113
- ☐ 1112
- ☐ 1311
- ☐ 1315

Question No.58

4.00

Bookmark ☐

Study the following information carefully and answer the question below it

- (i) There is a group of five persons- A, B, C, D and E
- (ii) One of them is manual scavenger, one is sweeper, one is watchman, one is human scarecrow and one is grave-digger
- (iii) Three of them – A, C and grave-digger prefer tea to coffee and two of them – B and the watchman prefer coffee to tea
- (iv) The human scarecrow and D and A are friends to one another but two of these prefer coffee to tea.
- (v) The manual scavenger is C's brother

Who is a sweeper?

- ☐ A
- ☐ D
- ☐ C
- ☐ E

Question No.59

4.00

Bookmark ☐

The theory of continental drift was hypothesized in 1912 by

- ☐ Robert H. MacArthur
- ☐ Edward O. Wilson
- ☐ Alfred Wegener
- ☐ Georges-Louis Buffon

Question No.60

4.00

Bookmark ☐

Allen's Rule for the mammals from colder climates defines

- ☐ longer ears and shorter limbs
- ☐ shorter ears and longer limbs
- ☐ longer ears and longer limbs
- ☐ shorter ears and shorter limbs

Question No.61

4.00

Bookmark ☐

Australia has both

- ☐ Monotremes and Marsupials
- ☐ Marsupials only
- ☐ Marsupials but no Monotremes
- ☐ No mammals

Question No.62

4.00

Bookmark ☐

Conservation for both ecological and human benefits has been dubbed

- ☐ humanistic ecology.
- ☐ biocultural restoration.
- ☐ homo-ecological conservation.
- ☐ eco-sapien conservation.

Question No.63

4.00

Bookmark ☐

Biological species concept was introduced by

- ☐ Charles Darwin
- ☐ Ernst Mayr
- ☐ Edward O. Wilson
- ☐ Charles Lyell

Question No.64

4.00

Bookmark ☐

The first real attempt to divide the earth in to regions corresponding with the range of its inhabitants is called

- ☐ Heilprin's regions
- ☐ Sclater's Regions
- ☐ Wallace's regions
- ☐ Huxley's Regions

Question No.65

4.00

Bookmark ☐

The equilibrium model of island biogeography predicts _____ rates of extinction on islands _____.

- ☐ lower, with increased area
- ☐ lower, farther from a source of colonists
- ☐ higher, with increased area
- ☐ higher, farther from a source of colonists

Question No.66

4.00

Bookmark ☐

Major distribution of vertebrate families can be explained by all of the following EXCEPT:

- ☐ The connection of land bridges between continents.
- ☐ The influence of climate changes such as ice ages.
- ☐ The marking of boundaries by passive advertisement.
- ☐ The separation of continental plates during the breakup of Pangaea.

Question No.67

4.00

Bookmark ☐

A man complete a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.

- ☐ 224
- ☐ 250
- ☐ 220
- ☐ 230

Question No.68

4.00

Bookmark ☐

Multidimensional niche concept was introduced by

- ☐ Edward O. Wilson
- ☐ G. E. Hutchinson
- ☐ Robert H. MacArthur
- ☐ Charles Darwin

Question No.69

4.00

Bookmark ☐

Study the following information carefully and answer the question below it

In a family, Isha is the granddaughter of Asha. Deepa is the mother of Hansa. Charan is the son of Anand. Radha is the mother of Isha. Deepa is the sister of Vinod and Charan. Nagesh has two children, Gita and Hansa. Emesh is the only grandson in the family. Charan is not married. Radha is the daughter-in-law of Anand.

Who is the daughter of Anand?

- ☐ Gita
- ☐ Deepa
- ☐ Isha
- ☐ Hansa

Question No.70

4.00

Bookmark ☐

The change of the lighter-coloured variety of peppered moth (*Biston betularia*) to its darker variety (*Biston carbonaria*) is due to

- ☐ Spatial and temporal Isolation
- ☐ Mutation
- ☐ Temporal isolation
- ☐ Genetic isolation

Question No.71

4.00

Bookmark ☐

Evolutionary convergence is development of

- ☐ random mating
- ☐ dissimilar characters in closely related groups
- ☐ common set of characters in closely related groups
- ☐ common set of characters in group of different ancestry

Question No.72

4.00

Bookmark ☐

Only after food has been dried _____

- ☐ it should be stored for later consumption
- ☐ should be stored for later consumption
- ☐ should it be stored for later consumption
- ☐ that is should be stored for later consumption

Question No.73

4.00

Bookmark ☐

During one's first few months in a new culture, one should learn the manners that are customary and _____.

- ☐ to be speaking language
- ☐ the language that is spoken there
- ☐ the spoken there language
- ☐ the language that is speaking

Question No.74

4.00

Bookmark ☐

The father of modern zoogeography is

- ☐ Charles Darwin
- ☐ Alexander von Humboldt
- ☐ Alfred Russel Wallace
- ☐ Charles Lyell

Question No.75

4.00

Bookmark ☐

In the polar regions, number of species are found to inhabit only in the Arctic and Antarctic waters with no representation in the intermediate ocean, and such interesting pattern of distribution is known as

- ☐ Cosmopolitan
- ☐ Unipolar distribution
- ☐ Ubiquitous
- ☐ Bipolar distribution

Question No.76

4.00

Bookmark ☐

Which group of vertebrates comprises the highest number of endangered species?

- ☐ Birds
- ☐ Fishes
- ☐ Reptiles
- ☐ Mammals

Question No.77

4.00

Bookmark ☐

Spilornis elgini (Blyth, 1863) is a endemic _____ of A&N Islands

- ☐ Snake
- ☐ Mammal
- ☐ Bird
- ☐ Frog

Question No.78

4.00

Bookmark ☐

Which one is endemic bat of A&N Islands?

- ☐ Tupaia nicobarica nicobarica
- ☐ Macaca fascicularis umbrosa
- ☐ Hipposideros ater nicobarulae
- ☐ Crocidura nicobarica

Question No.79

4.00

Bookmark ☐

In the following question, the first two words (given in italics) have a definite relationship. Choose one word out of the given four alternatives which will fill the blank space and show the same relationship with the third word as between the first two.

Orange is to *Peel* as *Tooth* is to?.....

- ☐ Gums
- ☐ Enamel
- ☐ Brush
- ☐ Joints

Question No.80

4.00

Bookmark ☐

Change in species composition is referred to as

- ☐ species changeover.
- ☐ species exchange.
- ☐ species turnover.
- ☐ species substitution.

Question No.81

4.00

Bookmark ☐

Endemic species defines

- ☐ rare species
- ☐ threatened species
- ☐ vulnerable species
- ☐ species localized in a specific region

Question No.82

4.00

Bookmark ☐

Horizontal distribution of animals on land, water and islands in different continents is called as Geographical distribution and its studies is known as

- ☐ Phytogeography
- ☐ Geography
- ☐ Zoogeography
- ☐ Biogeography

Question No.83

4.00

Bookmark ☐

Marine iguana is found in _____

- ☐ Hawai Island
- ☐ Andaman and Nicobar Islands
- ☐ Galapagos Islands
- ☐ Coco Island

Question No.84

4.00

Bookmark ☐

According to the equilibrium model of island biogeography the rate of immigration is mainly determined by an island's

- ☐ temperature pattern
- ☐ area
- ☐ isolation
- ☐ precipitation pattern

Question No.85

4.00

Bookmark ☐

Mamillary bodies are present in

- ☐ Hypothalamus
- ☐ Midbrain
- ☐ Thalamus
- ☐ Epithalamus

Question No.86

4.00

Bookmark ☐

Humming birds and Hawk illustrate

- ☐ Organic evolution
- ☐ Parallel evolution
- ☐ Convergent evolution
- ☐ Adaptive radiation

Question No.87

4.00

Bookmark ☐*Phelsuma andamanense* Blyth, 1861 is found in

- ☐ Diglipur
- ☐ Nancowry
- ☐ Car Nicobar
- ☐ Great Nicobar

Question No.88

4.00

Bookmark ☐

Choose the correct meaning to the italicized idiom.
 Vijay does not see *eye to eye* with me in this matter.

- ☐ To have the same eyesight
- ☐ To give a correct decision
- ☐ To obtain suitable punishment
- ☐ To have same opinion

Question No.89

4.00

Bookmark ☐

A red coloured tubular flower without any odour is most likely to be pollinated by

- ☐ Bees
- ☐ Birds
- ☐ Beetles
- ☐ Butterflies

Question No.90

4.00

Bookmark ☐

Which is not considered as Protected Area under W(P)A, 1972?

- ☐ Community Reserve
- ☐ Wildlife Sanctuary
- ☐ National Park
- ☐ Biosphere Reserve

Question No.91

4.00

Bookmark ☐

One of the following regions is not belong to Oriental region.

- ☐ Indo-Malay
- ☐ Indo-China
- ☐ Ceylon
- ☐ Siberian

Question No.92

4.00

Bookmark ☐

..... were truly the giants in the development of zoogeography.

- ☐ Charles Darwin and E. O. Wilson
- ☐ Alfred Wallace and Georges Buffon
- ☐ Robert H. MacArthur and G. E. Hutchinson
- ☐ Charles Darwin and Alfred Wallace

Question No.93

4.00

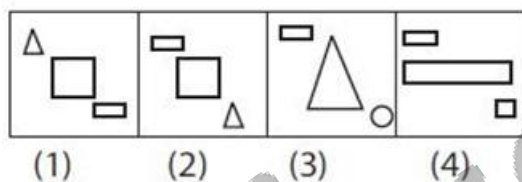
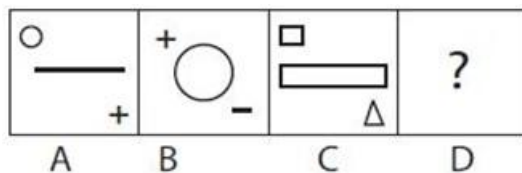
Bookmark ☐

_____ is most likely a cosmopolitan species?

- ☐ ostriches
- ☐ penguins
- ☐ humpback whale
- ☐ crows

Question No.94

4.00

Bookmark ☐

- ☐ 2
- ☐ 4
- ☐ 3
- ☐ 1

Question No.95

4.00

Bookmark ☐

Two zoogeographical regions, separated by high mountain ranges, are

- ☐ Neotropical and Ethiopian
- ☐ Oriental and Australian
- ☐ Nearctic and Palaearctic
- ☐ Palaearctic and Oriental

Question No.96

4.00

Bookmark ☐

The process of mating of individuals, which are more closely related than the average of the population to which they belong, is called

- ☐ Inbreeding
- ☐ Heterosis
- ☐ Hybrid vigor
- ☐ Hybridization

Question No.97

4.00

Bookmark ☐

Which of the following statement best describe a climax community?

- ☐ more stable and less diverse
- ☐ more stable and more diverse
- ☐ less stable and more diverse
- ☐ less stable and less diverse

Question No.98

4.00

Bookmark ☐

..... Includes the entire Indian sub-continent, Indochina, Philippines and South China.

- ☐ Palaearctic region
- ☐ Oriental region
- ☐ neotropical region
- ☐ Ethiopian region

Question No.99

4.00

Bookmark ☐

Life on earth appeared _____ according to geological time scale

- ☐ 6000 mya
- ☐ 7000 mya
- ☐ 1200 mya
- ☐ 3500 mya

Question No.100

4.00

Bookmark ☐

Change in species composition is referred to as

- ☐ species changeover.
- ☐ species exchange.
- ☐ species turnover.
- ☐ species substitution.

133 PU Ph D Zoogeography

1 of 100

209 PU_2016_133_E

In which biome of Africa would you find lions, giraffes, and elephants?

- ☐ Savanna
- ☐ tropical rain forest
- ☐ Chaparral
- ☐ Desert

2 of 100

195 PU_2016_133_E

Which Zoogeographic region is called as living museum?

- ☐ Australian
- ☐ Palaearctic
- ☐ Ethiopian
- ☐ Oriental

3 of 100

197 PU_2016_133_E

What ions are necessary for a nerve impulse to occur?

- ☐ Hydrogen and potassium
- ☐ Carbon and sodium
- ☐ Potassium and sodium
- ☐ Oxygen and carbon

4 of 100

169 PU_2016_133_E

The phosphorous cycle is unusual in that it is entirely:-

- ☐ Within terrestrial ecosystems
- ☐ Sedimentary
- ☐ Gaseous
- ☐ Within aquatic ecosystems

5 of 100

151 PU_2016_133_E

The prickly pear weed (*Opuntia*) menace has been successfully controlled by:-

- ☐ DDT spray
- ☐ Destroying its seeds
- ☐ Conchineal insect

- ☐ Cattle grazing

6 of 100

213 PU_2016_133_E

Ecosystem consists of:-

- ☐ A biotic community
- ☐ A population
- ☐ A population and its non-living environment
- ☐ Temperature

7 of 100

139 PU_2016_133_E

Frogs have ____ loop circulation, fish have ____ loop circulation.

- ☐ Five, four
- ☐ Atrial, ventricle
- ☐ Double, single
- ☐ Single, double

8 of 100

119 PU_2016_133_E

Who propounded the theory of aquatic or marine origin of life?

- ☐ Thales
- ☐ Aristotle
- ☐ Spallanzani
- ☐ Erasmus Darwin

9 of 100

181 PU_2016_133_E

IUCN (The International Union For Conservation Of Nature And Natural Resources) headquarters is at:-

- ☐ Vienna, Austria
- ☐ Morges, Switzerland
- ☐ Paris, France
- ☐ NewYork, USA

10 of 100

101 PU_2016_133_E

The most important reason for decrease in biodiversity is:-

- ☐ Habitat destruction
- ☐ Over-exploitation
- ☐ Habitat pollution

- ☐ Introduction of exotic species

11 of 100

149 PU_2016_133_E

Which of the following elements is the LEAST abundant in living organisms?

- ☐ Oxygen
- ☐ Nitrogen
- ☐ Sodium
- ☐ Phosphorous

12 of 100

187 PU_2016_133_E

The situation that 'man in the midst of disease' is referred to:-

- ☐ Incubation
- ☐ Pre-pathogenesis
- ☐ Immunity
- ☐ Pathogenesis

13 of 100

147 PU_2016_133_E

BOD of a river water is found very high. This means water:-

- ☐ Is clean
- ☐ Contain many dissolved mineral
- ☐ Is highly polluted
- ☐ Contain algae

14 of 100

135 PU_2016_133_E

Protein molecules of plasma membrane are:-

- ☐ Hydrolytic
- ☐ Hypotonic
- ☐ Hydrophilic
- ☐ Hydrophobic

15 of 100

161 PU_2016_133_E

The natural cycles that circulates elements between the earth and the environment is called:-

- ☐ Biogeochemical cycle
- ☐ Chemical cycle
- ☐ Biological cycle

- ☐ Nitrogen cycle

16 of 100

191 PU_2016_133_E

Gaps between the myelin sheath along an axon are called:-

- ☐ Astrocytes
- ☐ Chromatophilic substance
- ☐ Dendrites
- ☐ Nodes of ranvier

17 of 100

115 PU_2016_133_E

Cytochrome oxidases are found in :-

- ☐ On outer wall of mitochondria
- ☐ On cristae of mitochondria
- ☐ Mitochondrial matrix
- ☐ In the lysosomes

18 of 100

165 PU_2016_133_E

All populations in a given physical area are defined as: -

- ☐ Ecosystem
- ☐ Territory
- ☐ Population
- ☐ Biotic community

19 of 100

133 PU_2016_133_E

The most abundant chemical substance of cell wall is:-

- ☐ Cutin
- ☐ Chitin
- ☐ Pectin
- ☐ Cellulose

20 of 100

137 PU_2016_133_E

Schizocoelic phyla are:-

- ☐ Platyhelminthes, Aschelminthes and Annelida
- ☐ Arthropoda, Mollusc and Echinodermata
- ☐ Protozoa, Porifera, Cnidarians, and Platyhelminthes

- ☐ Annelida, Artropoda, and Mollusca

21 of 100

203 PU_2016_133_E

Mulberry silkworm is:-

- ☐ *Anthreaea assamensis*
- ☐ *Attacus atlas*
- ☐ *Bombyx mori*
- ☐ *Anthraea mylitta*

22 of 100

141 PU_2016_133_E

Reasons for preserving biodiversity include all of the following except:-

- ☐ Preventing natural evolution.
- ☐ Finding new plants that can supplement the world's food supply.
- ☐ Increasing the chances of discovering organisms with medicinal value.
- ☐ Isolating unique genetic material so it can be incorporated into existing crops.

23 of 100

171 PU_2016_133_E

Population which show gradual trends within zone of ecological variations are called:-

- ☐ Zonation
- ☐ Ecoclines
- ☐ Clines
- ☐ Clones

24 of 100

185 PU_2016_133_E

IUCN is also called as:-

- ☐ World Conservation Union
- ☐ World Conservation Consortium
- ☐ World Wide Conservation Union
- ☐ Man and Biosphere program

25 of 100

183 PU_2016_133_E

White matter appears white due to:-

- ☐ No blood supply
- ☐ Electrical charges
- ☐ Myelin

- ☐ Lack of nuclei

26 of 100

113 PU_2016_133_E

The presence of gill slits in the embryos of all vertebrates supports the theory of:-

- ☐ Biogenesis
- ☐ Recapitulation
- ☐ Organic evolution
- ☐ Metamorphosis

27 of 100

167 PU_2016_133_E

The boundary or transition between two or more communities which are sharply defined is called:-

- ☐ Biome
- ☐ Ecotone
- ☐ Thermocline
- ☐ Ecotype

28 of 100

189 PU_2016_133_E

The most important requirement of evolution is:-

- ☐ Sexual reproduction
- ☐ Mutation
- ☐ Development abnormality
- ☐ Adaptation

29 of 100

199 PU_2016_133_E

Muga silk is produced by:-

- ☐ *Anthreaea roylei*
- ☐ *Anthreaea mylitta*
- ☐ *Anthreaea assamensis*
- ☐ *Anthreaea pernyi*

30 of 100

157 PU_2016_133_E

Which ecosystem does not show variation depending upon geographic location and rainfall:-

- ☐ Marine ecosystem
- ☐ Tropical ecosystem
- ☐ Desert ecosystem

- ☐ Fresh water ecosystem

31 of 100

125 PU_2016_133_E

'Performance theory' of evolution states that:-

- ☐ Living things were animated by vital force
- ☐ All living forms have originated from ocean water
- ☐ All living beings have arisen from a primordial fluid
- ☐ Ova contains miniatures of the adult in preformed state

32 of 100

217 PU_2016_133_E

Population dispersion is the :-

- ☐ Movement away from a natal site
- ☐ Spatial distribution of individuals
- ☐ Mixing of two population
- ☐ Movement from one fixed point to another and back again

33 of 100

127 PU_2016_133_E

Caterpillar which affects coconut is:-

- ☐ *Pectinophora gossypiella*
- ☐ *Prodenia litura*
- ☐ *Calandra oryza*
- ☐ *Nephantis serenopa*

34 of 100

131 PU_2016_133_E

Cutin of cell wall is composed of :-

- ☐ Glucuronic and galacturonic acid
- ☐ Fatty acids
- ☐ Monosaccharide
- ☐ Coniferyl alcohol

35 of 100

207 PU_2016_133_E

A bird's wing and your arm are examples of _____.

- ☐ Homologous structures
- ☐ Genetic evidence
- ☐ Non-functioning structures

- ☐ Vestigial structures

36 of 100

193 PU_2016_133_E

A mass means of protecting the greatest number of people is:-

- ☐ Sanitation
- ☐ Immunization
- ☐ Transmission
- ☐ Incubation

37 of 100

163 PU_2016_133_E

The dry biomass produced annually on earth is estimated to be _____thousand million tones.

- ☐ 180
- ☐ 350
- ☐ 300
- ☐ 380

38 of 100

105 PU_2016_133_E

Which of the following pairs is most closely related:-

- ☐ Frogs and salamanders
- ☐ Frogs and toads
- ☐ Frogs and catfish
- ☐ Frogs and caecilians

39 of 100

211 PU_2016_133_E

Minamata disease is a pollution related disease which results from:-

- ☐ Release of industrial waste of mercury into fishing water
- ☐ Release of human organic waste into drinking water
- ☐ Oil spills into sea
- ☐ Accumulation of arsenic into atmosphere

40 of 100

103 PU_2016_133_E

An endangered species is:-

- ☐ An organism brought to a place where it has not lived before.
- ☐ A species that has disappeared entirely.
- ☐ A species growing on public land.

- ☐ A species in danger of extinction.

41 of 100

129 PU_2016_133_E

Which of the following is widely distributed in plant cell?

- ☐ Mitochondria
- ☐ RNA
- ☐ Chloroplasts
- ☐ DNA

42 of 100

153 PU_2016_133_E

Which two biomes are the most similar with regard to rainfall?

- ☐ Temperate forest and prairie
- ☐ Tundra and desert
- ☐ Rain forest and savanna
- ☐ Tundra and taiga

43 of 100

109 PU_2016_133_E

Outer and inner membranes of mitochondria are:-

- ☐ Structurally and functionally similar
- ☐ Structurally and functionally dissimilar
- ☐ Structurally similar and functionally dissimilar
- ☐ Structurally different and functionally dissimilar

44 of 100

205 PU_2016_133_E

Honey is nectar:-

- ☐ Pollen obtained from flowers and stored in beehive
- ☐ Of flowers diluted by honey bee by mixing with saliva
- ☐ Of flowers processed by honey bee by mixing with saliva
- ☐ Obtained from flowers and stored in beehive

45 of 100

219 PU_2016_133_E

Food levels in an ecosystem are called:-

- ☐ Herbivore levels
- ☐ Producer levels
- ☐ Consumer levels

- ☐ Trophic levels

46 of 100

179 PU_2016_133_E

A black moth and a white moth live in a forest with dark-colored trees. The white moth is eaten. The black moth lives to reproduce. This is an example of _____.

- ☐ Evolution
- ☐ Gradualism
- ☐ Natural selection
- ☐ Punctuated equilibrium

47 of 100

111 PU_2016_133_E

In mitochondria the first carrier of energy after the release of hydrogen from the food is usually:-

- ☐ FAD
- ☐ ADP
- ☐ NAD
- ☐ Cytochrome

48 of 100

143 PU_2016_133_E

Blood leaves the atrium of the fish and goes to the:-

- ☐ Gills
- ☐ Body
- ☐ Ventricle
- ☐ Cloaca

49 of 100

121 PU_2016_133_E

Embryology is:-

- ☐ The study of development of sex cells
- ☐ The study of development of plants
- ☐ The study of an individual from the fertilized egg
- ☐ The study of development of sex organs

50 of 100

215 PU_2016_133_E

From which part of turmeric plant (*Curcuma longa*) the turmeric powder is obtained?

- ☐ Dried rhizome
- ☐ Dried fruit

- ☐ Dried root
- ☐ Seed

51 of 100

117 PU_2016_133_E

Mitochondria are most abundant in :-

- ☐ Heart muscles
- ☐ Muscles of thigh
- ☐ Wings of birds
- ☐ Muscles of hand

52 of 100

155 PU_2016_133_E

Species richness means:-

- ☐ Number of species per unit area
- ☐ Number of genetic variation in a particular area
- ☐ Number of genes in a particular species
- ☐ Number of particular species per the total number of different species in a particular area

53 of 100

177 PU_2016_133_E

The important factor that has accelerated environmental problems is:-

- ☐ Ozone hole
- ☐ Water depletion
- ☐ Population explosion
- ☐ Blue revolution

54 of 100

107 PU_2016_133_E

Which fin is responsible for a fish's forward movement?

- ☐ Caudal
- ☐ Dorsal
- ☐ Pectoral
- ☐ Pelvic

55 of 100

159 PU_2016_133_E

The bone at the back of the skull is called the _____ bone.

- ☐ Foramen
- ☐ Parietal

- ☐ Temporal
- ☐ Occipital

56 of 100

175 PU_2016_133_E

Burning fossil fuels is the main cause of :-

- ☐ Nitrous oxide pollution
- ☐ Sulphur dioxide pollution
- ☐ Nitrogen oxide pollution
- ☐ Nitric oxide pollution

57 of 100

173 PU_2016_133_E

The carrying capacity of a population is determined by its:-

- ☐ Population growth rate
- ☐ Death rate
- ☐ Limiting resource
- ☐ Birth rate

58 of 100

123 PU_2016_133_E

From a primary Oocyte:-

- ☐ Three eggs are produced
- ☐ One egg is produced
- ☐ Four eggs are produced
- ☐ Two eggs are produced

59 of 100

145 PU_2016_133_E

The ecosystem approach to conservation is partly based on the idea that:-

- ☐ All rare species should be relocated to regional preserves.
- ☐ A healthy biosphere requires intact ecosystems.
- ☐ Human needs are of secondary importance.
- ☐ Keystone species are genetically superior to other organisms.

60 of 100

201 PU_2016_133_E

The skeletal muscles are controlled by the:-

- ☐ Cerebellum
- ☐ Autonomic nervous system

- ☐ Somatic nervous system
- ☐ Brain stem

61 of 100

225 PU_2016_133_M

The study of population structure is:-

- ☐ Ecology
- ☐ Demography
- ☐ Etymology
- ☐ Helminthology

62 of 100

254 PU_2016_133_M

The mouth part of honey bee used to mould wax and adhere pollen is:-

- ☐ Labrum
- ☐ Ligula
- ☐ Labium
- ☐ Labellum

63 of 100

229 PU_2016_133_M

What level of biodiversity is most commonly equated with the overall concept of biodiversity?

- ☐ Genetic diversity
- ☐ Species diversity
- ☐ Ecosystem diversity
- ☐ Species richness

64 of 100

235 PU_2016_133_M

Acrosome present on the sperm head is derived from:-

- ☐ Golgi apparatus
- ☐ Nucleus
- ☐ Centrosome
- ☐ Endoplasmic reticulum

65 of 100

221 PU_2016_133_M

In the food chain total amount of living material is depicted by:-

- ☐ Pyramid of energy
- ☐ Pyramid of emergy

- ☐ Pyramid of biomass
- ☐ Pyramid of numbers

66 of 100

233 PU_2016_133_M

The theory of spontaneous generation was given by:-

- ☐ Van Helmont
- ☐ Pasteur
- ☐ Redi
- ☐ Spallanzani

67 of 100

247 PU_2016_133_M

Hepatic portal system is present in all:-

- ☐ Amniotes only
- ☐ Amniotes and anamniotes only
- ☐ Amphibians and mammals
- ☐ Anamniotes only

68 of 100

237 PU_2016_133_M

The author of the classical work "The origin of life on earth" is:-

- ☐ Darwin
- ☐ Urey
- ☐ Oparin
- ☐ Fox

69 of 100

239 PU_2016_133_M

Blue whale is placed under:-

- ☐ Critically endangered
- ☐ Extinct
- ☐ Endangered
- ☐ Rare

70 of 100

252 PU_2016_133_M

Indri-indri lemur is found in :-

- ☐ Madagascar
- ☐ India

- ☐ Mauritius
- ☐ Sri Lanka

71 of 100

250 PU_2016_133_M

Complete eutrophication of a lake renders it:-

- ☐ Nutrient rich and unproductive
- ☐ Nutrient rich and productive
- ☐ Nutrient poor and productive
- ☐ Nutrient poor and unproductive

72 of 100

223 PU_2016_133_M

Lotic ecosystem refers to:-

- ☐ Ecosystems of estuaries
- ☐ Deep marine water systems
- ☐ Static water system
- ☐ Ecosystem of flowing water

73 of 100

256 PU_2016_133_M

Sympatric speciation occurs most commonly in:-

- ☐ Birds
- ☐ Mammals
- ☐ Plants
- ☐ Fishes

74 of 100

258 PU_2016_133_M

What are the sac-like structures of endoplasmic reticulum?

- ☐ Tubules
- ☐ Thylakoides
- ☐ Cisternae
- ☐ Cristae

75 of 100

241 PU_2016_133_M

The pyramid of energy is always:-

- ☐ Both upright and inverted
- ☐ Inverted

- ☐ Upright
- ☐ Inverted of forest ecosystem

76 of 100

245 PU_2016_133_M

Hardy-Weinberg law is associated with:-

- ☐ Plant disease
- ☐ Population genetics
- ☐ Embryology
- ☐ Eugenics

77 of 100

243 PU_2016_133_M

All are *in-situ* conservation efforts except:-

- ☐ Biosphere reserves
- ☐ Zoo
- ☐ Sanctuaries
- ☐ National parks

78 of 100

227 PU_2016_133_M

Which of the following is not one of the four types of tissues?

- ☐ Nervous.
- ☐ Epithelial.
- ☐ Muscular.
- ☐ Mesodermal.

79 of 100

231 PU_2016_133_M

Second order consumers are :-

- ☐ Animals feeding on plants
- ☐ Animals preying over herbivorous animals
- ☐ All heterotrophs
- ☐ Larger animals

80 of 100

259 PU_2016_133_M

Which of the following processes does not occur in the endoplasmic reticulum?

- ☐ Urea cycle
- ☐ Protein glycosylation

- ☐ Fatty acid desaturation
- ☐ Fatty acid elongation

81 of 100

289 PU_2016_133_D

The most outstanding danger at present for survival of living beings on earth is:-

- ☐ Desertification
- ☐ Radiation hazards
- ☐ Glaciation
- ☐ Deforestation

82 of 100

299 PU_2016_133_D

Approximately, 50% of total world species are present on:-

- ☐ Coral reefs
- ☐ Temperate deciduous forest
- ☐ Tropical rain forest
- ☐ Temperate rain forest

83 of 100

295 PU_2016_133_D

Ten percent law of food chain was enunciated by:-

- ☐ Elton
- ☐ Schimper
- ☐ Lindeman
- ☐ Haeckel

84 of 100

267 PU_2016_133_D

Feulgen positive test is for:-

- ☐ Fats
- ☐ RNA
- ☐ DNA
- ☐ Proteins

85 of 100

291 PU_2016_133_D

The symptoms of an allergic reaction develop in response to :-

- ☐ Interleukins
- ☐ Interferons

- ☐ Complement
- ☐ Histamine

86 of 100

298 PU_2016_133_D

Which of the following region has maximum diversity:-

- ☐ Temperate rainforest
- ☐ Taiga
- ☐ Coral reefs
- ☐ Mangroves

87 of 100

277 PU_2016_133_D

Which portion of the nephron consists of brush border striations:-

- ☐ Proximal convoluted tubule
- ☐ Distal convoluted tubule
- ☐ Collecting tubule
- ☐ Malpighian tubule

88 of 100

269 PU_2016_133_D

In which type of eggs, the blastomeres, if separated, develop into whole embryo:-

- ☐ Regulative
- ☐ Non- cleidoic
- ☐ Mosaic
- ☐ Cleidoic

89 of 100

293 PU_2016_133_D

Which of the following enzymes is characteristics of Golgi complex?

- ☐ Malate synthetase
- ☐ Glycosyl transferase
- ☐ Cytochrome oxidase
- ☐ Acid phosphatase

90 of 100

271 PU_2016_133_D

Jelly envelope of egg membrane is found in:-

- ☐ Mammals
- ☐ Amphibians

- ☐ Fishes
- ☐ Sea urchin

91 of 100

283 PU_2016_133_D

Copper is associated with which one of the following mitochondrial enzymes?

- ☐ Succinic dehydrogenase
- ☐ Acid phosphatase
- ☐ Catalase
- ☐ Cytochrome oxidase

92 of 100

273 PU_2016_133_D

The storage carbohydrate in animal is:-

- ☐ Starch
- ☐ Glucose
- ☐ Cellulose
- ☐ Glycogen

93 of 100

265 PU_2016_133_D

Which one of the following have only DNA (but no histones) in its chromosomes?

- ☐ Chlamydomonas
- ☐ Anabaena
- ☐ Volvox
- ☐ Yeast

94 of 100

261 PU_2016_133_D

Main difference between starfishes and brittle stars is in the:-

- ☐ Structure of the ambulacral groove
- ☐ Pedicellariae
- ☐ Number of arms
- ☐ Tube feet

95 of 100

279 PU_2016_133_D

The concave side of the kidney is called as:-

- ☐ Pyramid
- ☐ Cortex

- ☐ Nephron
- ☐ Hilus

96 of 100

285 PU_2016_133_D

Tubulin protein is an important component of :-

- ☐ Digestive enzymes
- ☐ Rough endoplasmic reticulum
- ☐ Microtubules
- ☐ Thylakoids

97 of 100

281 PU_2016_133_D

C-value paradox refers to the presence of:-

- ☐ Larger number of ribosomes than needed for polypeptide synthesis
- ☐ Less number of RNA polymerase than needed for RNA synthesis
- ☐ Less number of t-RNA than needed for polypeptide formation
- ☐ More DNA than needed for coding

98 of 100

275 PU_2016_133_D

How much amount of blood supply is received by the kidneys:-

- ☐ 1100 ml /min
- ☐ 1000 ml /min
- ☐ 1500 ml /min
- ☐ 1200 ml /min

99 of 100

287 PU_2016_133_D

Tonoplast a differentially permeable membrane surrounds:-

- ☐ Nucleus
- ☐ Vacuole
- ☐ Mitochondria
- ☐ Lysosome

100 of 100

263 PU_2016_133_D

Nucleolus is formed of:-

- ☐ DNA and RNA
- ☐ DNA, RNA and proteins

- ☐ RNA and proteins
- ☐ RNA