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## **DU PhD in Environmental Studie**

Topic:- DU\_J19\_PHD\_ES

1) Which sampling method is thought to provide the most biased data?

[Question ID = **12645**]

- 1. Simple Random sampling [Option ID = 20577]
- 2. Survey [Option ID = 20579]
- 3. Convenience sampling [Option ID = 20580]
- 4. Stratified sampling [Option ID = 20578]

#### **Correct Answer:-**

- Simple Random sampling [Option ID = 20577]
- 2) Which of the following correctly represents the inflection point in a population growth curve?

#### [Question ID = 12653]

- 1. 2×K [Option ID = 20611]
- 2. *K*/2 [Option ID = 20610]
- 3. K [Option ID = 20609]
- 4. 3×K [Option ID = 20612]

#### Correct Answer :-

- K [Option ID = 20609]
- 3) Which of the following sensor is not used in the remote sensing satellite?

#### [Question ID = 12673]

- 1. Biosensor [Option ID = 20692]
- 2. Thermal sensor [Option ID = 20691]
- 3. Electromagnetic sensor [Option ID = 20689]
- 4. Acoustic sensor [Option ID = 20690]

#### Correct Answer :-

- Electromagnetic sensor [Option ID = 20689]
- 4) Which of the following telescope arrays was used to take the first ever picture of a Black hole?

[Question ID = 12659]

1. Event Horizon telescope [Option ID = 20634]

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- 2. Allen telescope array [Option ID = 20636]
- 3. Hubble telescope [Option ID = 20635]
- 4. New horizon telescope [Option ID = 20633]

#### Correct Answer :-

• New horizon telescope [Option ID = 20633]

5) Which of the following indicators is used to determine the total hardness of water?

#### [Question ID = 12675]

- 1. Erichrome Black T [Option ID = 20699]
- 2. Murexide [Option ID = 20698]
- 3. Methyl Orange [Option ID = 20697]
- 4. Phenolphthalein [Option ID = 20700]

#### **Correct Answer :-**

• Methyl Orange [Option ID = 20697]

6) Which of the following measurements is likely to show a normal distribution?

## [Question ID = **12643**]

- 1. Body length [Option ID = 20569]
- 2. Percentage of time an animal spends foraging [Option ID = 20572]
- 3. Proportions of different species in a community [Option ID = 20571]
- 4. Exponential rates of litter decay [Option ID = 20570]

#### **Correct Answer:-**

• Body length [Option ID = 20569]

7) Which exotic species of Prosopis is highly invasive in India?

#### [Question ID = 12646]

- 1. Prosopis glandulosa [Option ID = 20583]
- 2. Prosopis juliflora [Option ID = 20582]
- 3. Prosopis valutina [Option ID = 20584] 4. Prosopis cineraria [Option ID = 20581]

#### **Correct Answer:-**

• Prosopis cineraria [Option ID = 20581]

8) Seed number, seed size, size of individuals, and life span (biological traits) of r-selected species in general are

#### [Question ID = 12630]

- Low, large, large, and long [Option ID = 20518]
- High, large, large, and long [Option ID = 20519]
- High, large, large, and short [Option ID = 20520] www.FirstRanker.com

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4. High, small, small, and short [Option ID = 20517]

#### **Correct Answer:-**

- High, small, small, and short [Option ID = 20517]
- 9) GRIIS stands for:

#### [Question ID = 12634]

- 1. Global Register of Introduced and Invasive Species [Option ID = 20533]
- 2. Global Reduction of Introduced and Invasive Species [Option ID = 20535]
- 3. Global Red list of Introduced and Invasive Species [Option ID = 20534]
- 4. Global Research on Introduced and Invasive Species [Option ID = 20536]

#### **Correct Answer:-**

- Global Register of Introduced and Invasive Species [Option ID = 20533]
- 10) Which of the following exists as a polyploid species complex?

#### [Question ID = 12635]

- 1. Knautia arvensis (Dipsacaceae) [Option ID = 20539]
- 2. *Gymnadenia conopsea* (Orchidaceae) [Option ID = 20538]
- 3. Lantana camara (Verbenaceae) [Option ID = 20537]
- 4. All of these [Option ID = 20540]

#### **Correct Answer:-**

- Lan tan a cam ar a (Verbenaceae) [Option ID = 20537]
- 11) Population of medicinal plants growing logistically can be harvested sustainably at

#### [Question ID = 12652]

- 1. Half of the carrying capacity [Option ID = 20605]
- 2. Double of the carrying capacity [Option ID = 20607]
- 3. None of these [Option ID = 20608]
- 4. The carrying capacity [Option ID = 20606]

#### **Correct Answer :-**

- Half of the carrying capacity [Option ID = 20605]
- 12) Which of the following signals might be best used by nocturnal forest animals for identifying their territory?

#### [Question ID = 12640]

- 1. Visual and olfactory [Option ID = 20557]
- 2. Auditory and olfactory [Option ID = 20558]
- 3. Tactile and olfactory [Option ID = 20559]
- 4. Tactile and auditory [Option ID = 20560]

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Correct Answer :-	
Visual and olfactory [Option ID = 20557]	
13) Mesothelioma is caused by the toxicity of	
[Question ID = 12671]	
<ol> <li>Methane [Option ID = 20681]</li> <li>Carbon monoxide [Option ID = 20684]</li> <li>Sulphur di oxide [Option ID = 20682]</li> <li>Asbestos [Option ID = 20683]</li> </ol>	
Correct Answer :- • Methane [Option ID = 20681]	
14) In a pond ecosystem, which one of the following are t	he consumers in the heterotrophic layer?
[Question ID = 12664]	
<ol> <li>Spirogyra sp. [Option ID = 20654]</li> <li>Fungi [Option ID = 20656]</li> <li>Benthic insects [Option ID = 20655]</li> <li>Diatoms [Option ID = 20653]</li> </ol>	
Correct Answer :-  • Diatoms [Option ID = 20653]	
15) The Folin-Ciocalteu method is used for determination	of
[Question ID = 12648]	
1. Nitrate content [Option ID = 20590]	
Organic carbon content [Option ID = 20589]      Dhave beta content [Option ID = 20501]	
<ul><li>3. Phosphate content [Option ID = 20591]</li><li>4. Total phenolic content [Option ID = 20592]</li></ul>	
Correct Answer :-	
Organic carbon content [Option ID = 20589]	
16) According to the principle of, scientists avo	id more complex explanations when a simple one will do.
[Question ID = 12654]	
1. Authority [Option ID = 20615]	
<ol> <li>Parsimony [Option ID = 20613]</li> <li>Falsifiability [Option ID = 20616]</li> </ol>	
4. Quota sampling [Option ID = 20614]	

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- Parsimony [Option ID = 20613]
- 17) A range of measurements which includes the middle 50% of the measurements or observations in a sample, bounded by the lowest value of the value of the lowest 25% of measurements is called the

#### [Question ID = 12642]

- 1. 50% confidence interval [Option ID = 20565]
- 2. Standard error [Option ID = 20567]
- 3. Standard deviation [Option ID = 20566]
- 4. Interquartile range [Option ID = 20568]

#### **Correct Answer:-**

- 50% confidence interval [Option ID = 20565]
- 18) Unidirectional flow of energy in an ecosystem is governed by the

## [Question ID = 12672]

- 1. First Law of thermodynamics [Option ID = 20685]
- 2. None of these [Option ID = 20688]
- 3. Second Law of thermodynamics [Option ID = 20686]
- 4. Both first and second laws of thermodynamics [Option ID = 20687]

#### **Correct Answer:**

- First Law of thermodynamics [Option ID = 20685]
- 19) A community of species whose niches complement one another is more efficient in its use of resource than an equivalent set of monocultures

#### [Question ID = 12636]

- 1. Niche divergence [Option ID = 20544]
- 2. Niche gradient [Option ID = 20542]
- 3. Niche complimentarity [Option ID = 20543]
- 4. Fundamental niche [Option ID = 20541]

#### Correct Answer :-

- Fundamental niche [Option ID = 20541]
- 20) Hardness of minerals is measured in

#### [Question ID = 12674]

- 1. Clastic Scale [Option ID = 20695]
- 2. Talc Scale [Option ID = 20693]
- 3. Moh's Scale [Option ID = 20694]
- 4. Beaufort's Scale [Option ID = 20696]

Correct Answer :-

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• Talc Scale [Option ID = 20693]

#### 21) Methemoglobinemia is caused due to pollution of

#### [Question ID = 12668]

- 1. Nitrate [Option ID = 20672]
- 2. Copper [Option ID = 20669]
- 3. Iron [Option ID = 20670]
- 4. Mercury [Option ID = 20671]

#### **Correct Answer:-**

• Copper [Option ID = 20669]

#### 22) What does the steep slope of a rank-abundance plot indicate? [Question ID = 12639]

- 1. greater abundance of dominant species in the community [Option ID = 20554]
- 2. greater abundance of rare species in the community [Option ID = 20555]
- 3. greater dominance of common species over rare species in the community [Option ID = 20556]
- 4. greater dominance of rare species over common species in the community [Option ID = 20553]

#### **Correct Answer:-**

• greater dominance of rare species over common species in the community [Option ID = 20553]

#### 23) An experiment that demonstrated the importance of spatial heterogeneity in stabilizing predator-prey interactions is called

#### [Question ID = 12650]

- 1. Allee's experiment [Option ID = 20597]
- 2. Huffaker's experiment [Option ID = 20598]
- 3. Organism interaction experiment [Option ID = 20600]
- 4. Ecosystem experiment [Option ID = 20599]

#### **Correct Answer:-**

• Allee's experiment [Option ID = 20597]

### 24) Walkley and Black's Rapid Titration Method is used to estimate

### [Question ID = 12649]

- 1. Soil phenolic levels [Option ID = 20594]
- 2. Soil organic carbon [Option ID = 20595]
- 3. Soil phosphate levels [Option ID = 20593]
- 4. Soil microbial activity [Option ID = 20596]

#### Correct Answer :-

• Soil phosphate levels [Option ID = 20593]

25) When a mixture of Azospirillum, Azotobacter, and Bacillus was applied to rhizosphere, fixation of atmospheric nitrogen increased. This was due

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[Question ID = 12667]	
<ol> <li>Azospirillum and Bacillus [Option ID = 20666]</li> <li>Azotobacter and Azospirillum [Option ID = 20668]</li> <li>Azotobacter and Bacillus [Option ID = 20667]</li> <li>Bacillus [Option ID = 20665]</li> </ol>	
Correct Answer :-  • Bac illus [Option ID = 20665]	
26) When a doctor uses a stethoscope to count your pulse rate, the doctor is gathering information by using the:	
[Question ID = 12644]	
<ol> <li>empirical method [Option ID = 20574]</li> <li>rational method [Option ID = 20573]</li> <li>method of authority [Option ID = 20576]</li> <li>method of intuition [Option ID = 20575]</li> </ol>	
Correct Answer :-  • rational method [Option ID = 20573]	
<ul> <li>27) When noxious or dangerous animals advertize the fact by bright, conspicuous colors and patterns this is known as [Question ID = 12647]</li> <li>1. Allelopathy [Option ID = 20588]</li> <li>2. Aposematism [Option ID = 20585]</li> <li>3. Mimicry [Option ID = 20587]</li> <li>4. Crypsis [Option ID = 20586]</li> </ul>	
Correct Answer:-  • Aposematism [Option ID = 20585]	
28) Long distance mate attraction in the insect order Orthoptera primarily involves  [Question ID = 12641]	
<ol> <li>Visual cues [Option ID = 20564]</li> <li>Tremulation [Option ID = 20562]</li> <li>Pheromones [Option ID = 20563]</li> <li>Acoustic signals [Option ID = 20561]</li> </ol>	
Correct Answer :-  • Acoustic signals [Option ID = 20561]	
29) "Complete competitors cannot coexist" is true for	

[Ouestion ID = 12632]

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1. Primary succession [Option ID = 20525]	
Character displacement [Option ID = 20528]     Secondary succession [Option ID = 20526]	
4. Competitive exclusion [Option ID = 20526]	
Correct Answer :-	
Primary succession [Option ID = 20525]	
30) A plateau phase in growth curve of a population signifies	
[Question ID = 12656]	
Population with an equal number of births and deaths [Option ID :	= 20622]
2. Population with higher deaths than the births [Option ID = 20623	
<ul><li>3. Population with zero births and high deaths [Option ID = 20624]</li><li>4. Population with rapidly growing individuals [Option ID = 20621]</li></ul>	
Correct Answer :-	
• Population with rapidly growing individuals [Option ID = 20621]	
[Question ID = 12627]  1. Lambers and Poorter, 1999 [Option ID = 20507]  2. Zhou, 2013 [Option ID = 20508]  3. Richardson and Pyšek, 2006 [Option ID = 20505]  4. Simberloff <i>et al.</i> , 2012 [Option ID = 20506]	
Correct Answer :- Richardson and Pyšek, 2006 [Option ID = 20505]	
32) According to the "Aichi Biodiversity Targets" which strate	egic goal and target is pertinent to invasive alien species? [Question ID = 12628]
1. Goal A and Target 3 [Option ID = 20509]	
2. Goal B and Target 9 [Option ID = 20510]	
3. Goal C and Target 13 [Option ID = 20511]	
4. Goal D and Target 16 [Option ID = 20512]	
Correct Answer:-	
Goal A and Target 3 [Option ID = 20509]	
22) Bantida handa afantish ana afatha fallanina is na hanntha	ined by other case 2
33) Peptide bonds of which one of the following is not synthes	oized by fibosomes?
[Question ID = 12663]	

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Phytochelatins [Option ID = 20652]
 Cytochrome C [Option ID = 20651]

4. Salivary amylase [Option ID = 20649]

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# Correct Answer :-Salivary amylase

• Salivary amylase [Option ID = 20649]

#### 34) Percentage of soil organic matter represented by carbon is

#### [Question ID = **12669**]

- 1. 72% [Option ID = 20676]
- 2. 14% [Option ID = 20673]
- 3. 28% [Option ID = 20674]
- 4. 58% [Option ID = 20675]

#### **Correct Answer:-**

• 14% [Option ID = 20673]

#### 35) "Program MARK" is a popular software used to analyze a variety of ecological data pertaining to breeding success, population size, etc. The und

#### [Question ID = **12676**]

- 1. Base pair deletions [Option ID = 20703]
- 2. r and K selection [Option ID = 20704]
- 3. Lock and key mechanism [Option ID = 20701]
- 4. Mark-recapture [Option ID = 20702]

#### **Correct Answer:-**

• Lock and key mechanism [Option ID = 20701]

#### 36) Who among the following is considered to be the foremost expert on chimpanzees?

### [Question ID = 12662]

- 1. Ernst Mayr [Option ID = 20647]
- 2. Steve Irwin [Option ID = 20646]
- 3. Neil Shubin [Option ID = 20648]
- 4. Jane Goodall [Option ID = 20645]

#### **Correct Answer:-**

• Jane Goodall [Option ID = 20645]

#### 37) Closely related species present in the same habitat are likely to experience

#### [Question ID = 12657]

- 1. Severe competition [Option ID = 20625]
- 2. No competition [Option ID = 20627]
- 3. High cooperation [Option ID = 20628]
- 4. Low competition [Option ID = 20626]

Correct Answer :-

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Severe competition [Option ID = 20625]		
38) Species are put into groups and then groups are arr through	anged into hierarchies to form a tree like arrangement called dendrogram for the hierarchic	
[Question ID = 12629]		
<ol> <li>Correlation analysis [Option ID = 20515]</li> <li>Regression analysis [Option ID = 20513]</li> <li>Twinspan analysis [Option ID = 20514]</li> <li>Principle component analysis [Option ID = 20516]</li> </ol>		
Correct Answer :- • Regression analysis [Option ID = 20513]		
39) Null hypothesis and alternative hypothesis are often	n symbolized by and, respectively.	
[Question ID = 12655]		
1. H1, H0 [Option ID = 20618] 2. H0, H1 [Option ID = 20617] 3. H0a, H0b [Option ID = 20620] 4. H1a, H1b [Option ID = 20619]		
Correct Answer:-  HO, H1 [Option ID = 20617]		
40) Which of the following two areas would have greated Area 1: Species A- 10; Species B- 10; Species C- 10 Area 2:Species A- 1; Species B- 1; Species C- 28 [Question of the content of t		
<ol> <li>Area 1 and Area 2 have equal diversity [Option ID = 20551</li> <li>Area 1 and Area 2 have equal species evenness [Option ID</li> <li>Area 1 [Option ID = 20549]</li> <li>Area 2 [Option ID = 20550]</li> </ol>		
Correct Answer :-  • Area 1 [Option ID = 20549]		
41)is a measure of area of biologica	lly productive land or sea required to produce food, material, and energy. [Question ID $= 1$ :	
<ol> <li>Living Planet Index (LPI) [Option ID = 20522]</li> <li>Ecological Foot Print (EF) [Option ID = 20521]</li> <li>Human Development Index (HDI) [Option ID = 20523]</li> <li>Happy Planet Index (HPI) [Option ID = 20524]</li> </ol>		
Correct Answer :-  • Ecological Foot Print (EF) [Option ID = 20521]		

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42) Interplanar spacing used in XRD analysis is calculated using

#### [Question ID = 12665]

- 1. First law of Thermodynamics [Option ID = 20657]
- 2. Second law of Thermodynamics [Option ID = 20658]
- 3. Brag's law [Option ID = 20659]
- 4. Newton's first law [Option ID = 20660]

#### Correct Answer :-

• First law of Thermodynamics [Option ID = 20657]

#### 43) Which one of the following is referred to as nature's pesticide? [Question ID = 12666]

- 1. Heptachlor [Option ID = 20662]
- 2. Toxaphene [Option ID = 20663]
- 3. Aldrin [Option ID = 20661]
- 4. Pyrethrum [Option ID = 20664]

#### **Correct Answer:-**

• Aldrin [Option ID = 20661]

44) Physiognomy is a..... qualitative analytical character of a community.

### [Question ID = 12633]

- 1. Synthetic [Option ID = 20531]
- 2. Species level [Option ID = 20530]
- 3. Stand level [Option ID = 20529]
- 4. Stand and species level [Option ID = 20532]

#### **Correct Answer :-**

• Stand level [Option ID = 20529]

#### 45) Geostrophic wind occurs when pressure gradient force balances

#### [Question ID = 12670]

- 1. Centripetal force [Option ID = 20679]
- 2. Coriolis force [Option ID = 20677]
- 3. Frictional force [Option ID = 20678]
- 4. None of these [Option ID = 20680]

#### **Correct Answer:-**

• Coriolis force [Option ID = 20677]

46) Presenting someone else's ideas or work without their consent or without acknowledgement is

[Question ID - 12661]

1. An act of plagiarism [Option ID = 20643]

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- 2. An act of betrayal [Option ID = 20641]
- 3. An act of selfishness [Option ID = 20642]
- 4. An act of utilitarianism [Option ID = 20644]

#### **Correct Answer :-**

• An act of betrayal [Option ID = 20641]

#### 47) The proposers of 'Lotka-Volterra model', Vito Volterra and Alfred Lotka were

#### [Question ID = 12651]

- 1. Ecologists [Option ID = 20602]
- 2. Biologists [Option ID = 20604]
- 3. Environmentalists [Option ID = 20603]
- 4. Mathematicians [Option ID = 20601]

#### **Correct Answer:-**

• Mathematicians [Option ID = 20601]

#### 48) The scholarly Latin abbreviation "et al. " stands for

## [Question ID = 12660]

- 1. And remaining [Option ID = 20640]
- 2. And all [Option ID = 20639]
- 3. And more [Option ID = 20637]
- 4. And others [Option ID = 20638]

#### **Correct Answer:**

• And more [Option ID = 20637]

#### 49) The maximum per capita rate of increase achieved by a species under ideal environmental conditions is called the

#### [Question ID = 12637]

- 1. inherent rate of increase [Option ID = 20546]
- 2. inherent growth rate [Option ID = 20547]
- 3. intrinsic growth rate [Option ID = 20545]
- 4. intrinsic rate of increase [Option ID = 20548]

#### **Correct Answer:-**

• intrinsic growth rate [Option ID = 20545]

#### 50) The newly discovered hominin species, Homo luzonensis, was discovered from a cave in

#### [Question ID = 12658]

- L. Cambodia [Option ID = 20630]
- 2. Indonesia [Option ID = 20632]
- 3. Philippines [Option ID = 20631]



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	4. Laos [Option ID = 20629]	
	Correct Answer :-	
	• Laos [Option ID = 20629]	