umers

ramid proceed through the various tropic levels as herbivores, then carnivores that eat herbivores, ores that eat other weaker carnivores, and so on). consumers are those "who survive on the food ced by the plants i.e. producers"

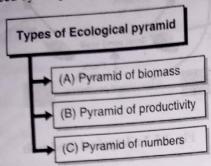


Fig. 3.5.4: Types of Ecological pyramid

Pyramid of biomass

nass is the amount of living or organic matter ent in an organism. Biomass pyramids show how ch biomass is present in the organisms in unit area at erent tropic levels. Typical units for a biomass amid could be grams per meter2, or calories per ter2.

Pyramid of productivity

ecological pyramid of productivity shows the oduction or turnover of biomass at each tropic level. oductivity pyramids show the flow of energy through e food chain. Typical units would be grams per eter2 per year or calories per meter2 per year. As with e others, this graph begins with producers at the ottom and places higher tropic levels on top.

hen energy is transferred to the next tropic level, pically only 10% of it is used to build new biomass, the rest going to metabolic processes). As such, in a yramid of productivity each step will be 10% the size of the previous step (100, 10, 1, 0.1, 0.01).

C) Pyramid of numbers

An ecological pyramid of numbers shows graphically the population of each level in a food chain.

Review Questions

- Define terms Eco system (Refer Section 3.1)
- Define terms Biotic and abiotic (Refer Section 3.2) Q. 1
- Explain the concept of an ecosystem. Q. 2
- Q. 3 (Refer Section 3.2)
- Explain with schematic diagram, the energy flow in a typical ecosystem. (Refer Section 3.2) Q. 4
- Give classification / Types of ecosystem. (Refer Section 3.3) Q. 5
- List the major ecosystem in world. Q. 6 (Refer Section 3.3.1)
- Explain broad structure of ecosystem. Q. 7 (Refer Section 3.5)
- What are the functions of ecosystem? Q. 8 (Refer Section 3.5)
- Explain energy flow in ecosystem. Q. 9 (Refer Section 3.5)
- Define terms: Producer and Consumer. Q. 10 (Refer Section 3.5.2)

MULTIPLE CHOICE QUESTIONS

- abiotic biotic and consists Q. 1 components. Ecosystem Environment None of the above (iv) Ecology (iii) (ii) Ans.: Biotic and abiotic components together form an Q. 2
 - Ecosystem (ii) Pond None of the above River (iv)
- (i) Ans.: Community of living organisms make part of an Q. 3
 - Universe (i) Environment (ii) None of the above
- (iii) Ecosystem (iv) Ans.: (iii) Non living organism community makes part of an Q. 4
- Ecology 4 Ecosystem (ii)
- None of the above Environment (iv) Ans.: (i)

-	piotic and abiotic co	ompone	ents are linked throu		
Q. 5	Biotic and abiotic o		movimad N		
	(i) Energy flow	(ii)	Nutrient cycles		
	(ii) (i) and (ii) both	(iv)	None of the above		
Ane :	(III) is arounded sing				
Q. 6	Energy flow in ecosy	stem lir	nks and		
	together.				
	(i) Biotic and abiot	tic comp	onents		
	(ii) Organism and				
	(iii) Fruits and flower	ers	12 Damilyones He		
	(iv) None of the ab-				
Ans. :	(i) bhove (ii)				
Q. 7	Nutrients cycles pla	ay impo	ortant role in		
			omponents.		
	(i) Combining	(iii)	Linking Linking		
			None of the above		
Ans.:	(vi) I None of Im (ii)				
Q. 8	Ecosystem can be o	f any	(1)		
	(i) Size	(ii)	Shape		
	(iii) Type	(iv)	None of the above		
Ans.:	(i) (vi)		eremond (jp)		
Q. 9	Energy flow in any	ecosyst	em is primarily obtain		
	(i) Coal	(ii)	Power		
	(iii) Sun	(iv)	None of the above		
Ans.:	(iii)		(1)		
Q. 10	Energy flow involves				
	Components	(ii)	Trees		
	(iii) Animals	(iv)	None of the above		
Ans.:	(i)				
Q. 11	Producers in any eco	osystem	may be		
	(i) Primary only				
	(ii) Secondary only	y			
	All- primary/se	condary	/tertiary		
	(iv) None of the above				
Ans. :					
Q. 12	Ecosystem consists of components which play				
	as consum		(iii). Consumer		
			Primary and tertian		
			Tertiary		

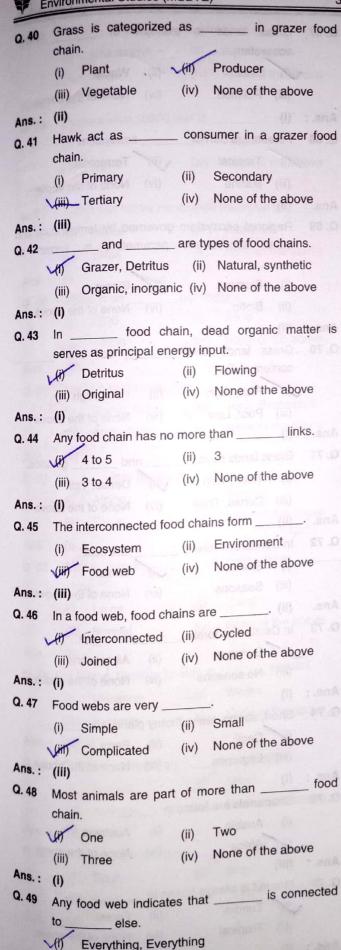
(iv) None of the above

Ans.: (iii)

Q. 13	Biotic	and abiotic cor	nponen	ts in e	cosystem interact
		with each of	ther.	,	
	(i)	Occasionally	(in)	Cont	inually
	(iii)	Rarely	(iv)	None	e of the above
Ans.:	(ii)				
Q. 14					ving organisms is
		f _{iles and sup} vental		Tales rit	renment
	(i)	Soil (ii)			ronment
1000	(iii)	Ecosystems	(IV)	None	Of the above
Ans.:	(iii)			honge	
Q. 15			can exc	nange	e between soil and
	water		- (20)	Livin	g
	(1)	Dead			
		No and a	(10)	14011	e of the above
Ans.:		-to-mara of		and	types.
		Aquatic and Te			
					stor, 3 = (ft)
		Clean and unc			(ii) anA
	, ,				D. 25 At compat
			ove		
		L roof is ov	amnle	of	type of
Q. 17		ystem.	ample	01	(iii) : seriA
			(ii)	Agu	atic as as a
					ne of the above
Ans.:	(i)	0.9	Laurence de		
Q. 18		dra" is example	of	a lame t	type ecosystem.
Q. 10	(i)	Marine			
					None of the above
Ans.:		Wildrediesegies			
Q. 19		essential com	ponent	s of	any ecosystem is,
G. 15	THE		analted	nutse	
	(i)	Energy source	е	(ii)	Biotic and abiotic
	1.7	components			LIBERT EFFEIT
	(iti)	(i) and (ii) bot	h	(iv)	None of the above
Ans. :	(iii)				
Q. 20	Bioti	c and abiotic			in ecosystem are
		ed through			liphenia (II)
6	(i)	Energy flow			
	VIII)	Energy transf	formatio	ns	
	(iii)	Energy balan	ces	(iv)	None of the above
Ans.	: (ii)	AND THE PARTY OF T			
	Table 1				



Q. 21 Biotic and a biotic components involve	Q. 30 Those which consume droppings of all of us.
(i) Biochemical composition	Detritivores (ii) Herbivores
(iii) Biochemical cycling	(iii) Carnivores (iv) None of the above
(iii) Biochemical balances	Ans.: (i)
(iv) None of the above	Q. 31 Dead tissues and waste products are used
Ans.: (ii)	and
Q. 22 chain involves energy transformation.	Detritivores (ii) Metagens
Food (ii) Reactions	(iii) Soil (iv) None of the above
(iii) Cyclisation (iv) None of the above	Ans.: (i)
Ans.: (i)	Q. 32 Detritivores, Herbivores, Carnivores are part
Q. 23 chain and web involves energy	(M) None of the enders
transformation.	Food chain (ii) World
Food, food (ii) Producer, consumer	(iii) Ecosystem (iv) None of the above
(iii) Producer, food (iv) None of the above	Ans.: (i)
Ans.: (i)	Q. 33 Energy flows from to
Q. 24 All ecosystems involve transformations.	Bottom, top (ii) Top, bottom
(i) Ecology (ii) Energy	(iii) Earth, moon (iv) None of the above
(iii) Cycle (iv) None of the above	Ans.: (i)
Ans.: (ii)	Q. 34 Amount of energy from bottom to top.
Q. 25 All ecosystems involve cycling.	(i) Increases (ii) Decreases
(i) Biological (ii) Geological	(iii) Remains same (iv) None of the abov
Biogeochemical (iv) None of the above	Ans.: (ii)
Ans.: (iii)	Q. 35 In food chain, Grass hopper is consumer.
Q. 26 Biogeochemical cycling links and	Primary (ii) Secondary
components in ecosystem.	(iii) Initial (iv) None of the above
(i) Plants and animal	Ans.: (i)
Living and non-living	Q. 36 Snake is consumer in food chain.
(iii) Organic and Inorganic	Secondary (ii) Tertiary
(iv) None of the above	(iii) Primary (iv) None of the above
Ans.: (ii)	Ans.: (i)
Q. 27 Food chain and food web concept is associated with transformations.	Q. 37 In the presence of sun and water,
	produces food.
(ii) Ecological	(i) Decomposer (ii) Producer
Ans · (III)	(iii) Consumer (iv) None of the above
28 eat plants and plant are duet	Ans.: (ii)
	Q. 38 Fungi act as in food chain.
	Decomposer (ii) Producer
ne : (II)	(iii) Consumer (iv) None of the charge
20 suprive on harbiveres	Ans.: (i) None of the above
see for sold in annully the soul of all means the	Q. 39 Decomposer helps to send to producers.
	(i) Components (ii) Nutrients
(iii) Aquatics (iv) None of the above	(iii) Constituent
ns. (ii)	Ans.: (ii) None of the above



(iii) Everything, Nothing (iv) None of the above Ans.: (i) Q. 50 Ecological pyramid is a representation. (i) Geological (ii) Pyramidal (iii) Graphical (iv) None of the above Ans.: (iii) Q. 51 Ecological pyramid shows productivity. (i) Biome (ii) Biomass (iii) Organic (iv) None of the above Ans.: (ii) Q. 52 In ecological pyramid primary producers are shown at (ii) Periphery (iv) None of the above Ans.: (ii) Q. 53 Primary producers are followed by consumers. (i) Secondary (ii) Primary (iii) All (iv) None of the above Ans.: (ii) Q. 54 Tertiary consumers are shown at of ecological pyramid. (i) Base (ii) Corners (iv) None of the above Ans.: (ii) Q. 55 Ecological pyramid is in shape. (i) Circular (iii) Oval (iv) None of the above Ans.: (ii) Q. 56 Ecological pyramid consists of and in sequence. (i) Plants, animals (ii) Producers, consumers (iii) Consumers, producers (iv) None of the above Ans.: (iii) Q. 57 pyramids show amount of organic matter in an organism. (iii) Biomass (ii) Biome (iii) Biotic (iv) None of the above		(ii) Nothing, Everything			
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(iii) Biotic (iv) None of the above		in an organism.			
everdu sel le anolif - la fi-		(ii) Biomass (ii) Biome			
Ans.: (i)		(iii) Biotic (iv) None of the above			
	Ans.:	(1)			

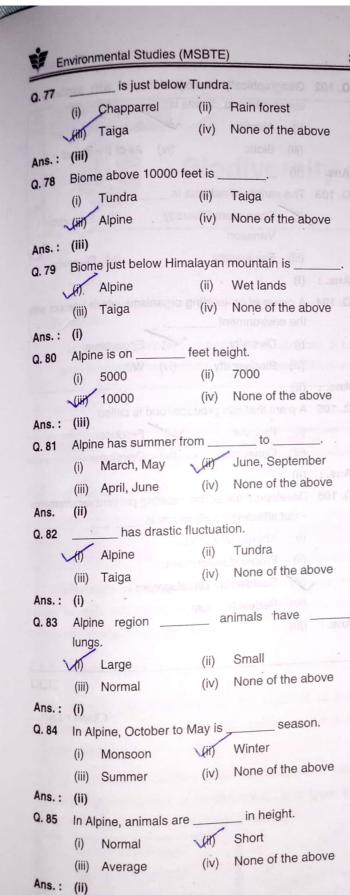
Ans.: (iii)

(iii) Tropical

Ans. :

None of the above

(iv)



In Alpine, animals have _

Four

(iii) Bent

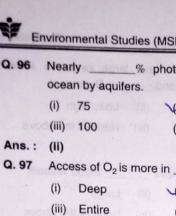
Ans.: (ii)

legs.

(iv) None of the above

Short

Q. 87 In Alpine, animals have large lungs, to survive pressure andO ₂ content.				
	_	pressure and	,,,,	Low High
	W	High, Low	(11)	None of the above
	(iii)	High, High	(IV)	None of the above
Ans.:	(i)			O. L. advancale
Q. 88	In Al	pine, animals hav	'e	blood vessels.
	V(1)	More	(ii)	Large
	(iii)	Thick	(iv)	None of the above
Ans.;			nah o	boold Photosynthesis
Q. 89		nals in Alpine	region	have blood
		els to store more		 (ii) Thick, O ₂
		More, Haemoglo	nido	(iv) None of the above
	(iii)	Large, blood		(1) 140116 01 11.0 425.76
Ans.:	(i)		10 90	
Q. 90		Alpine,	also	have adaptations as
	anim		1	Humans
	di er	Plants	(iv)	None of the above
		Aquatics		
Ans.:				also have
Q. 91		like in Alpine	es, in	also riavo
	add 90	otations of lungs. Nepal	(ii)	Canada
		India		None of the above
		Iridia	THE STATE OF	sales header 101 As
Ans.;		im vino (f)	ot oro	allad
Q. 92	-	ple in Nepal / Tibe		Gorkha
,	(1)	Sherapas	100	None of the above
		Himalayan	(10)	140He of the above
Ans.:	(i)			uh in Onnono
Q. 93				rth is Oceans.
	~ .	75	(ii)	None of the above
		30	(IV)	Notice of the above
Ans.:				
Q. 94		nts under ocean a	/	
	107	Aquatic	(11)	Aquifers
	(iii)	Oceanicy	(iv)	None of the above
Ans.:	(ii)			
Q. 95	Aqu	lifers prepare foo	100	-
	(i)	Metabolism	VIT	Photosynthesis
	(iii)	Photolysis	(iv)	None of the above
Ans. :	(ii)			



Q. 102 Geographically ecological region with similarity in ____% photosynthesis takes place in

Abiotic (i) **Biotic**

(iv) All of the above

Ans.: (ii)

Shallow

None of the above

(iv) None of the above

ocean water.

Ans. : (ii)

Photosynthesis does not take place in Q. 98 ocean water.

Deep

Shallow

Both above

(iv) None of the above

Ans.: (i)

Q. 99 Due to absence of photosynthesis, deep ocean is

(i) Minerals

(iii) Aquifers

(iv) None of the above

Ans.: (i)

Q. 100 Minerals / Oils/ Salts mainly occurs in

Deep ocean

Shallow ocean

None of the above

Ans.: (i)

Q. 101 Ocean ecosystem gives

Minerals/oil/salt

Only minerals

(iii) Only oil

(iv) None of the above

Ans.: (i)

Q. 103 The variety of habitats is

vegetation and climate is

Ecosystem Diversity

(ii) Ecological

Variation

(iii) Biodiversity

(iv) Diversity

Ans.: (i)

Q. 104 A group of co-existing organisms which interact with the environment

Diversity

Ecosystem

Biodiversity

Ans.:

Q. 105 A plant that can produce food is called

Provider

Producer

Consumer

Developer

Ans.: (ii)

Q. 106 Developmental action-meeting present requirements not affecting future needs is ___

Appropriate action (i)

Proper development (ii)

Sustainable Development

Redevelopment

Ans.: (iii)

Chapter Ends...

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