Coastal systems estuarine & shoreline successions 3.1.3.3 ANSWERS

Q1	True or False?	
А	A sand dune ecosystem receives but does not lose sand	False
В	A plant succession means that as you travel along an estuary the plants change	False
С	A saltmarsh involves plants that can tolerate saline conditions	True
D	Embryo dunes are backed by yellow dunes, which turn into grey dunes in time	True
Е	A dune slack is where tourists have worn the vegetation away	False

Q2	Match each term to the correct description			
А	An intervening stage of characteristic plants on the way to a full succession	Seral community		
В	A plant succession developing in salt water conditions	Halosere		
С	Final stage of a fully mature succession matched to prevailing conditions	Climatic climax		
D	A plant succession developing on unconsolidated sand leading to stability	Psammosere		
E	The plant community that develops where human activity intervenes	Plagioclimax		
Psam	Psammosere climatic climax plagioclimax halosere seral community			

Q3	Tick which is the odd one out from each grou	p of 6 terms
А	Grey dune	Embryo dune
	Mudflat 🗸	Yellow dune
	Dune slack	Upper beach zone
Five te	erms refer a sand dune ecosystem (psammoser	e). Mudflats related to haloseres.
В	Halosere	Marine algae
	Estuary shore	Low saltmarsh
	Foredune 🗸	Intertidal zone
Five te	erms refer to a saltmarsh ecosystem (halosere).	Foredune related to psammosere.
С	Climatic climax	Prisere
	Seral community	Salt-tolerant plants 🗸
	Plant succession	Secondary succession
Five te	erms refer to different stages in a plant success	ion. Salt-tolerant plants are not a stage.
D	Pine	Spartina
	Cordgrass	Marram
	Mobile dune 🗸	Alder
Five te	erms refer to types of plant found in haloseres a	and psammoseres. Mobile dunes are not a plant.

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Q4	Number the stages to put them in the right sequence of development (1 = first)	
	<u>Halosere</u>	<u>Psammosere</u>
	High saltmarsh (4)	Grey dune (4)
	Climax (5)	Embryo dune (1)
	Submerged estuary shore (1)	Foredune (2)
	Mudflat (2)	Heath & woodland (5)
	Low Saltmash (3)	Yellow dune (3)

Q5	Suggest what qualities the named variable requires for maximum development of	
	the named sere	
A	Wind – in the development of a psammosere	
	Consistent on-shore direction	
	Drying wind that dries lower beach rapidly at low tide to move it inland	
	Strong enough to blow sand from upper beach a little way inland	
	Not so strong that sand is dispersed over a wide area inland	
	Not so powerful to create dune blow-outs amongst established dunes	
В	Water – in the development of a halosere	
	Sediment-rich estuary water	
	Gentle currents that move sediment towards the shore but don't disturb deposits	
	Predominant on-shore flow bringing more sediment onshore	
	Unpolluted water, allowing saltmarsh plants to thrive	
	Not too large an intertidal range generating powerful currents	
	Stable long-term sea level	