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 > **Detail Summary**

Question Statistics



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Assessment title: **Quiz9: Waves**



Question title: Phase and Group

The velocity describes the propagation of the wave energy while the velocity describes the propagation of individual crests and troughs.

Response Summary

Answer	Value	Frequency Distribution
phase, group	0.00%	2 (6.7%) 
group, phase	100.00%	28 (93.3%) 

Grade Distribution Summary

Grade	Frequency Distribution
0-10	2 
11-20	0
21-30	0
31-40	0
41-50	0
51-60	0
61-70	0
71-80	0
81-90	0
91-100	15 



N	Percent Answering Correctly			Discrimination	Mean	Median	Standard Deviation
	Whole Group	Upper 25%	Lower 25%				
17	88.24	100.00	80.00	20.00	88.24%	100.00%	33.21%

Question title: Dispersion relation



The dispersion relation relates the wave frequency to the wave scale and phase velocity.

True False

Response Summary

Answer	Value	Frequency Distribution
True	100.00%	27 (90%) 
False	0.00%	3 (10%) 

Grade Distribution Summary







Grade	Frequency Distribution
0-10	3 
11-20	0
21-30	0
31-40	0
41-50	0
51-60	0
61-70	0
71-80	0
81-90	0
91-100	14 

N	Percent Answering Correctly			Discrimination	Mean	Median	Standard Deviation
	Whole Group	Upper 25%	Lower 25%				
17	82.35	100.00	80.00	20.00	82.35%	100.00%	39.30%







Question title: dispersive and nondispersive waves

A wave is when the group and phase velocities are equal.


Responses: Answer Box 1

Answer	Value	Frequency Distribution
COHERENT	0.00%	2 (6.7%) 
CREST	0.00%	1 (3.3%) 
IN PHASE	0.00%	2 (6.7%) 
LARGEST	0.00%	1 (3.3%) 
NONDISPERSIVE	100.00%	23 (76.7%) 
STANDING	0.00%	1 (3.3%) 

Combined Results: All Answer Boxes

Answer	Frequency Distribution
COHERENT	2 (6.7%) 
CREST	1 (3.3%) 
IN PHASE	2 (6.7%) 
LARGEST	1 (3.3%) 
NONDISPERSIVE	23 (76.7%) 
STANDING	1 (3.3%) 

Grade Distribution Summary

Grade	Frequency Distribution
0-10	7 
11-20	0
21-30	0
31-40	0
41-50	0
51-60	0
61-70	0
71-80	0
81-90	0
91-100	10 

N	Percent Answering Correctly			Discrimination	Mean	Median	Standard Deviation
	Whole Group	Upper 25%	Lower 25%				
17	58.82	80.00	40.00	40.00	58.82%	100.00%	50.73%


Question title: Surface gravity waves

Surface gravity waves are usually generated by anomalies in the



- 1. surface height
- 2. velocity
- 3. density
- 4. rotation rate

Response Summary

Answer	Value	Frequency Distribution
1.	100.00%	26 (86.7%) 

Answer	Value	Frequency Distribution
2.	100.00%	1 (3.3%) 
3.	0.00%	2 (6.7%) 
4.	0.00%	1 (3.3%) 

Grade Distribution Summary




Grade	Frequency Distribution
0-10	3 
11-20	0
21-30	0
31-40	0
41-50	0
51-60	0
61-70	0
71-80	0
81-90	0
91-100	14 

N	Percent Answering Correctly			Discrimination	Mean	Median	Standard Deviation
	Whole Group	Upper 25%	Lower 25%				
17	82.35	100.00	60.00	40.00	82.35%	100.00%	39.30%

Question title: Surface gravity waves 2


Surface gravity waves are in intermediate and water, but not in water.

Response Summary

Answer	Value	Frequency Distribution
dispersive, -, shallow	0.00%	1 (3.3%) 
dispersive, deep, shallow	100.00%	22 (73.3%) 
dispersive, shallow, deep	0.00%	7 (23.3%) 

Grade Distribution Summary

Grade	Frequency Distribution
0-10	7 
11-20	0

Grade	Frequency Distribution
21-30	0
31-40	0
41-50	0
51-60	0
61-70	0
71-80	0
81-90	0
91-100	10 



N	Percent Answering Correctly			Discrimination	Mean	Median	Standard Deviation
	Whole Group	Upper 25%	Lower 25%				
17	58.82	80.00	60.00	20.00	58.82%	100.00%	50.73%

Question title: Kelvin wave speed



Kelvin waves have the same speed as shallow-water nonrotating gravity waves.

True False

Response Summary

Answer	Value	Frequency Distribution
True	100.00%	26 (86.7%) 
False	0.00%	4 (13.3%) 

Grade Distribution Summary

Grade	Frequency Distribution
0-10	4 
11-20	0
21-30	0
31-40	0
41-50	0
51-60	0
61-70	0
71-80	0
81-90	0
91-100	13 



N	Percent Answering Correctly			Discrimination	Mean	Median	Standard Deviation
	Whole Group	Upper 25%	Lower 25%				
17	76.47	80.00	60.00	20.00	76.47%	100.00%	43.72%

Question title: Kelvin and Tides



Kelvin waves are not affected by the movement of the sun and moon.

True False

Response Summary

Answer	Value	Frequency Distribution
True	0.00%	5 (16.7%) 
False	100.00%	25 (83.3%) 

Grade Distribution Summary


Grade	Frequency Distribution
0-10	4 
11-20	0
21-30	0
31-40	0
41-50	0
51-60	0
61-70	0
71-80	0
81-90	0
91-100	13 

N	Percent Answering Correctly			Discrimination	Mean	Median	Standard Deviation
	Whole Group	Upper 25%	Lower 25%				
17	76.47	100.00	40.00	60.00	76.47%	100.00%	43.72%


Question title: Rossby waves

Planetary Rossby waves rely on the variation of while topographic waves rely on the variation of .

Response Summary

Answer	Value	Frequency Distribution
Coriolis parameter, depth	100.00%	30 (100%) 

Grade Distribution Summary

Grade	Frequency Distribution
0-10	0
11-20	0
21-30	0
31-40	0
41-50	0
51-60	0
61-70	0
71-80	0
81-90	0
91-100	17 

N	Percent Answering Correctly			Discrimination	Mean	Median	Standard Deviation
	Whole Group	Upper 25%	Lower 25%				
17	100.00	100.00	100.00	0.00	100.00%	100.00%	0.00%