

# Unit 8 - Week 7

## Course outline

How to access the portal

Week 1

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Week 7

● Lecture 11 - Photo Interpretations: Lithology of Sedimentary Rocks and related Topography

● Lecture 12 - Photo Interpretations: Lithology of Metamorphic and Igneous Rocks

● Lecture 13 - Photo Interpretations: Coastal and Fluvial Landforms-1

● Lecture 14 - Photo Interpretations: Coastal and Fluvial Landforms-2

● Lecture 15 - Photo Interpretations: Aeolian Landforms and their Surface Expressions

○ Quiz : Assignment 7

○ Assignment 7 solution

Week 8

Text Transcripts

## Assignment 7

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.

Due on 2019-10-16, 23:59 IST.

1) For more precise and reliable interpretation and lithological analysis of the outcrops of various kinds of rocks, a photo interpreter uses a combination of \_\_\_\_\_.

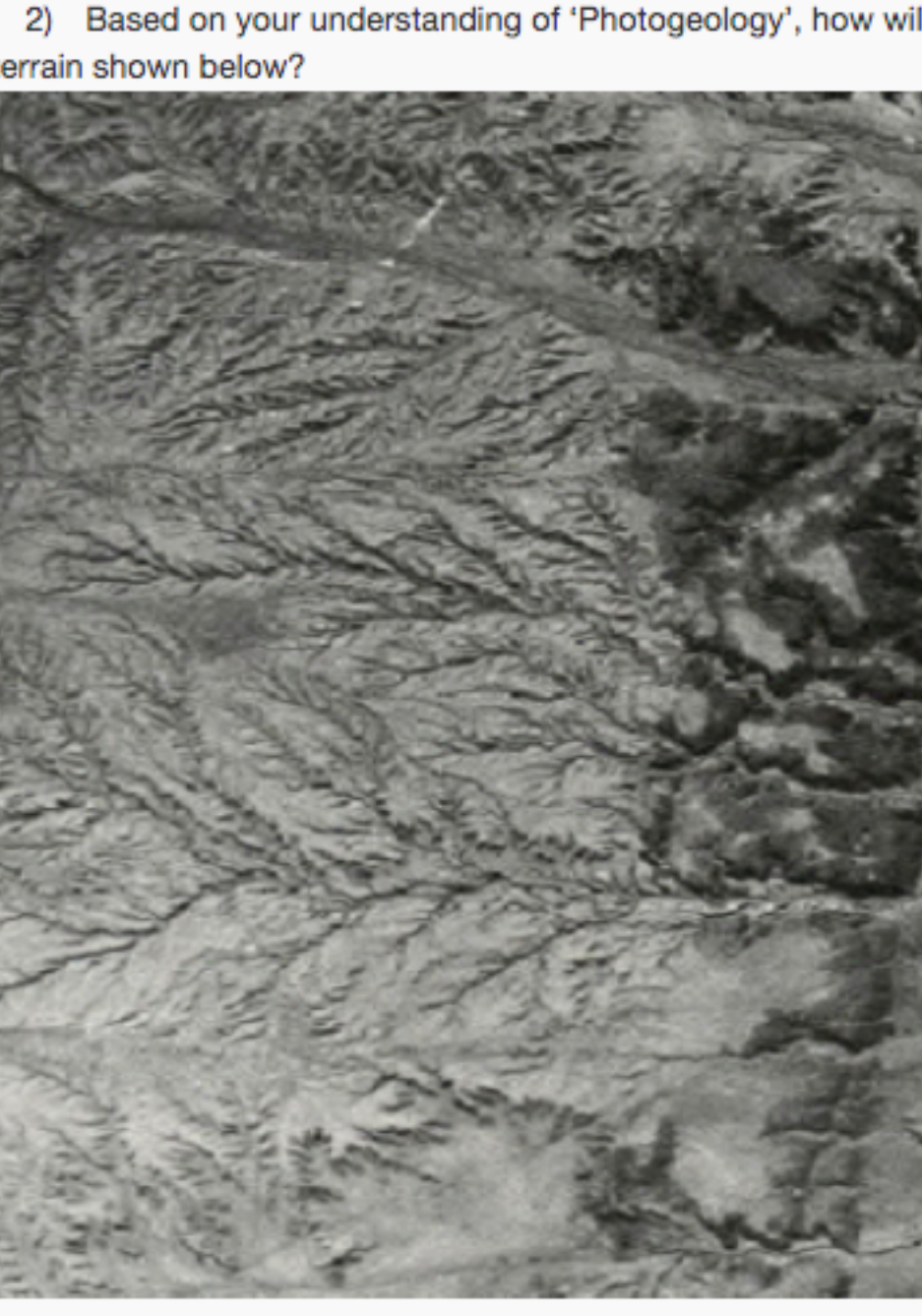
- Drainage patterns and textures
- Structural imprints and zoning patterns of natural vegetation
- Topographic expressions and residual soil tones
- All of these

No, the answer is incorrect.

Score: 0

Accepted Answers: All of these

2) Based on your understanding of 'Photogeology', how will you interpret the lithology and drainage patterns on the aerial photograph of a sedimentary terrain shown below?



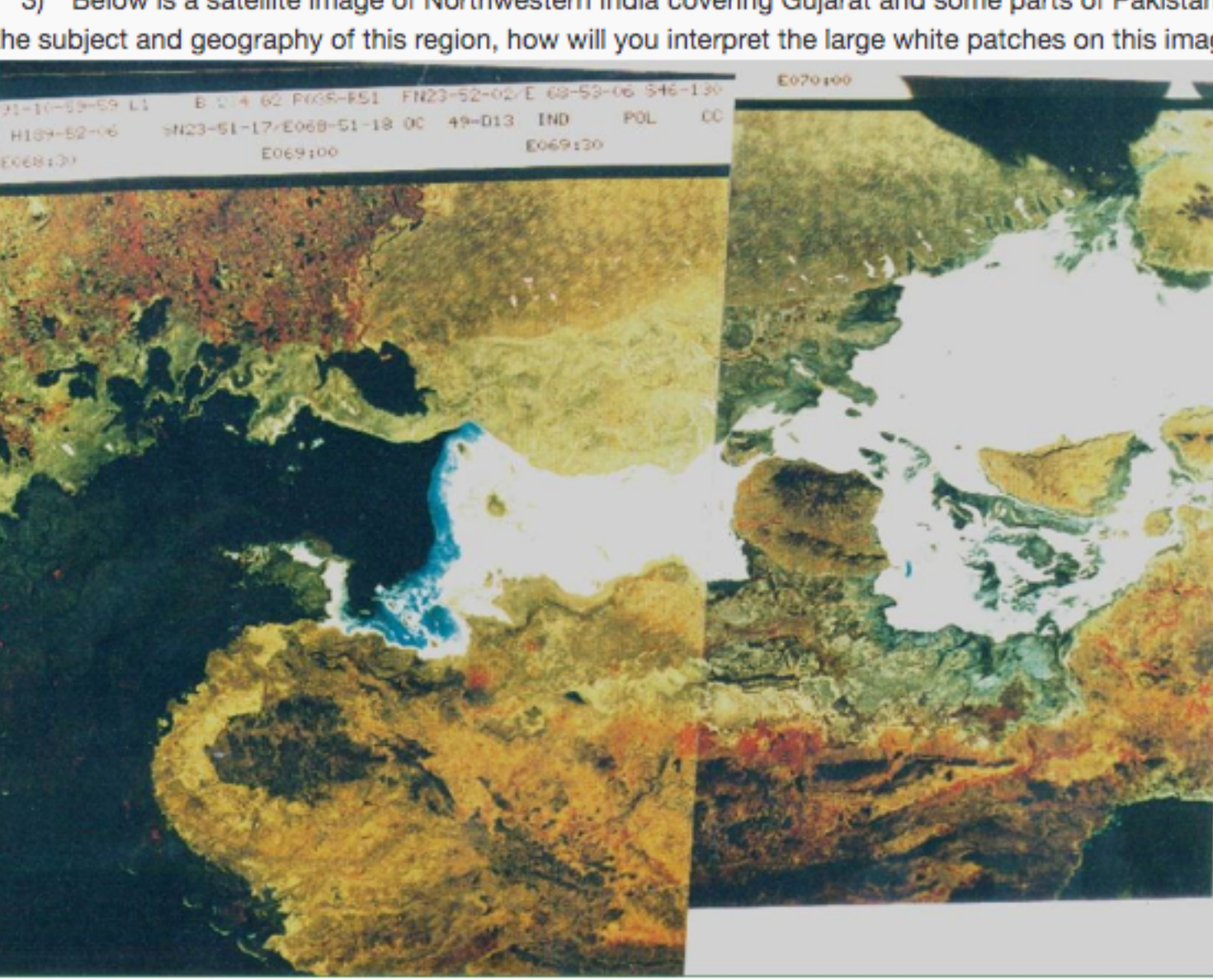
- Photo shows closely spaced parallel drainage patterns over shales
- Photo shows closely spaced parallel drainage patterns over sandstones
- Photo shows closely spaced dendritic drainage patterns over shales
- Photo shows closely spaced dendritic drainage patterns over sandstones

No, the answer is incorrect.

Score: 0

Accepted Answers: Photo shows closely spaced dendritic drainage patterns over shales

3) Below is a satellite image of Northwestern India covering Gujarat and some parts of Pakistan and the Arabian Sea. Based on your understanding of the subject and geography of this region, how will you interpret the large white patches on this image?



- Beaches of Saurashtra Coast
- Thar Desert
- Fresh Sandy Deposits
- Salt Encrustations

No, the answer is incorrect.

Score: 0

Accepted Answers: Salt Encrustations

4) Karst topography, subsidence and collapse structures, sink-holes, caverns etc. in humid areas, ridges, hills and sinking creeks in arid areas, highly susceptible to dissolution, and low drainage density are characteristic features of \_\_\_\_\_.

- Schists, Phyllites, and Slates Topography
- Limestone and Dolomite Topography
- Granite and Gabbro Topography
- Quartzite and Gneiss Topography

No, the answer is incorrect.

Score: 0

Accepted Answers: Limestone and Dolomite Topography

5) Tilting of sedimentary rocks by folding, intrusion, or faulting results in the exposure of sedimentary rocks to variable rates of weathering and erosion. Thus the harder rocks form \_\_\_\_\_ with softer rocks forming \_\_\_\_\_.

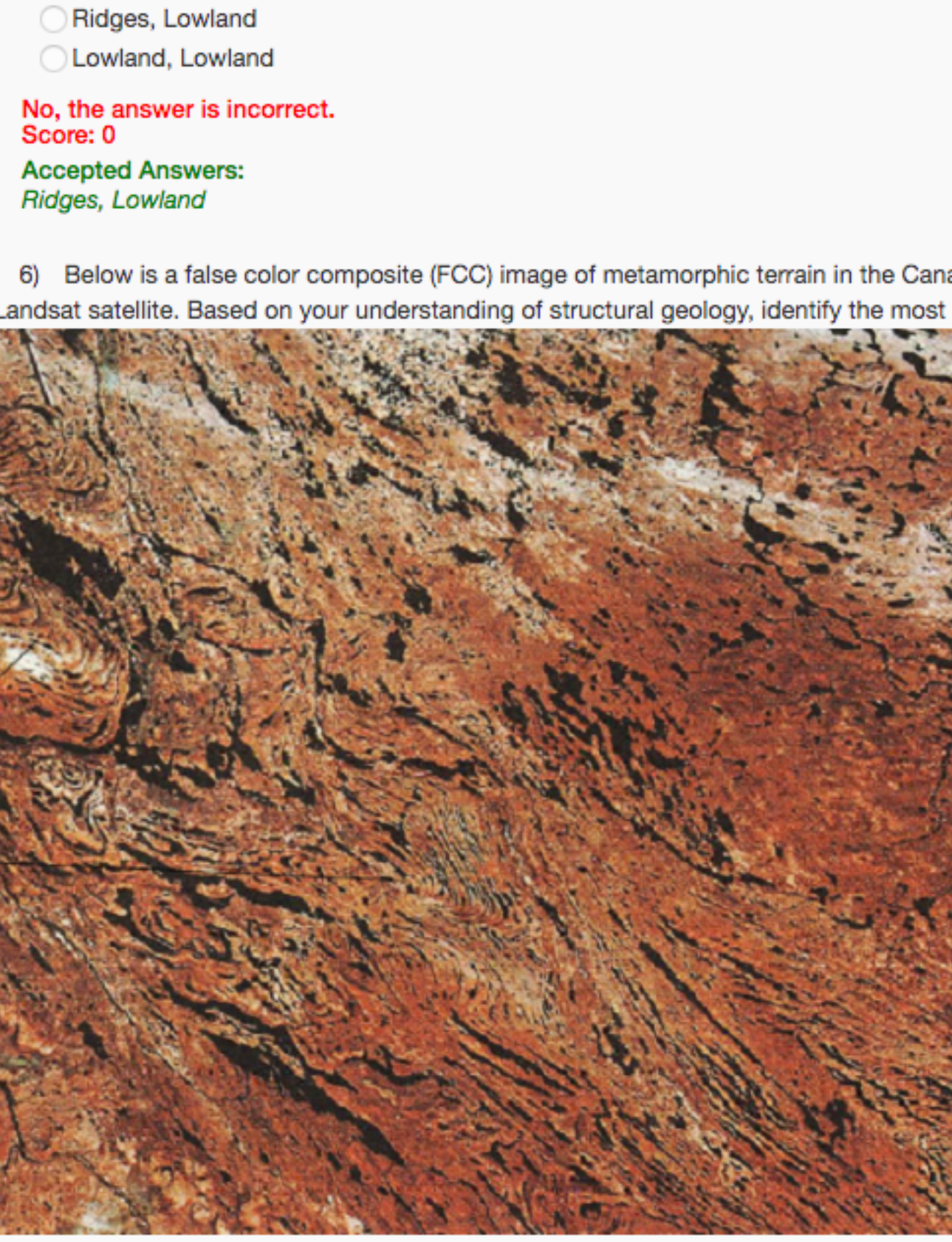
- Lowland, Ridges
- Ridges, Ridges
- Ridges, Lowland
- Lowland, Lowland

No, the answer is incorrect.

Score: 0

Accepted Answers: Ridges, Lowland

6) Below is a false color composite (FCC) image of metamorphic terrain in the Canadian Shield captured by a multispectral sensor (MSS) aboard Landsat satellite. Based on your understanding of structural geology, identify the most prominent structures?



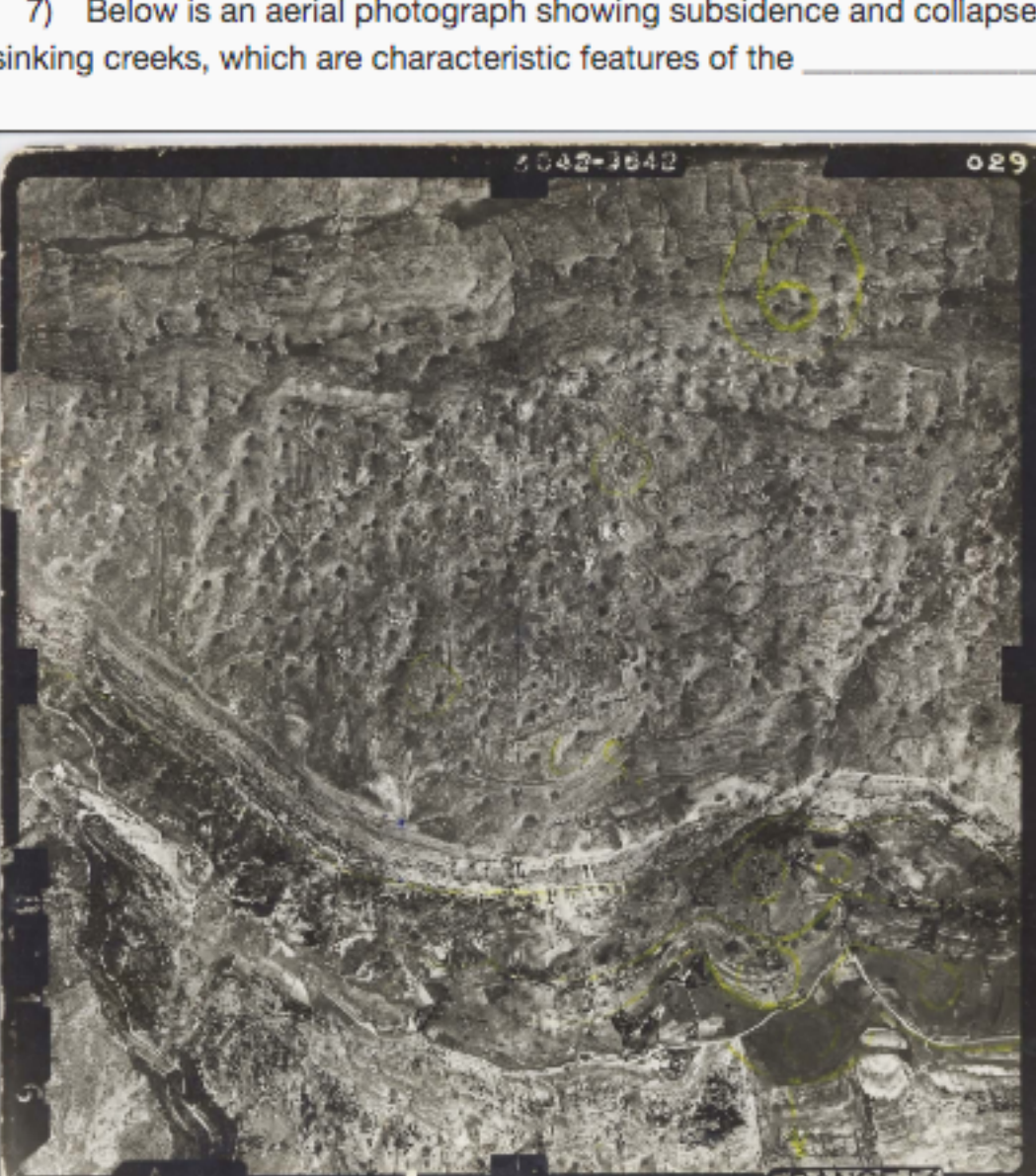
- Jointed Strata
- Faulted and Jointed Strata
- Faulted Strata
- Major and Minor Folded Strata

No, the answer is incorrect.

Score: 0

Accepted Answers: Major and Minor Folded Strata

7) Below is an aerial photograph showing subsidence and collapse structures, sink-holes, pot-holes, gullies, dissolution structures, caverns, ridges, and sinking creeks, which are characteristic features of the \_\_\_\_\_.



- Fluvial Topography
- Karst Topography
- Aeolian Topography
- Coastal Topography

No, the answer is incorrect.

Score: 0

Accepted Answers: Karst Topography

8) During an earthquake seismic waves pass easily through \_\_\_\_\_ whereas highly amplified while passing through \_\_\_\_\_, this phenomena can be used for hazard assessment of a region where different types of underground materials are present.

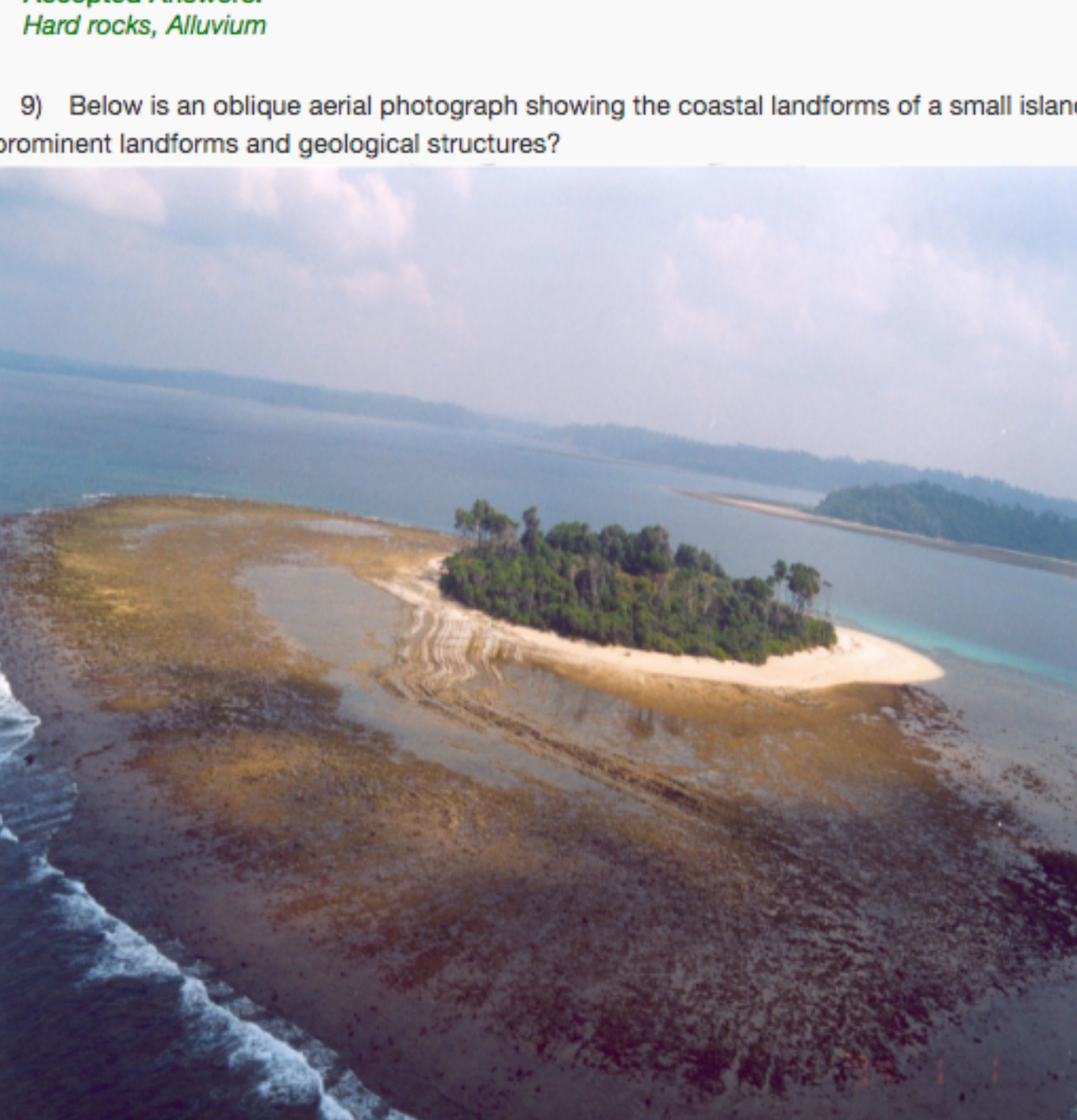
- Soft rocks, Hard rocks
- Alluvium, Hard rocks
- Hard rocks, Alluvium
- Soil, Rocks

No, the answer is incorrect.

Score: 0

Accepted Answers: Hard rocks, Alluvium

9) Below is an oblique aerial photograph showing the coastal landforms of a small island in Andaman group. Based on your understanding, identify the prominent landforms and geological structures?



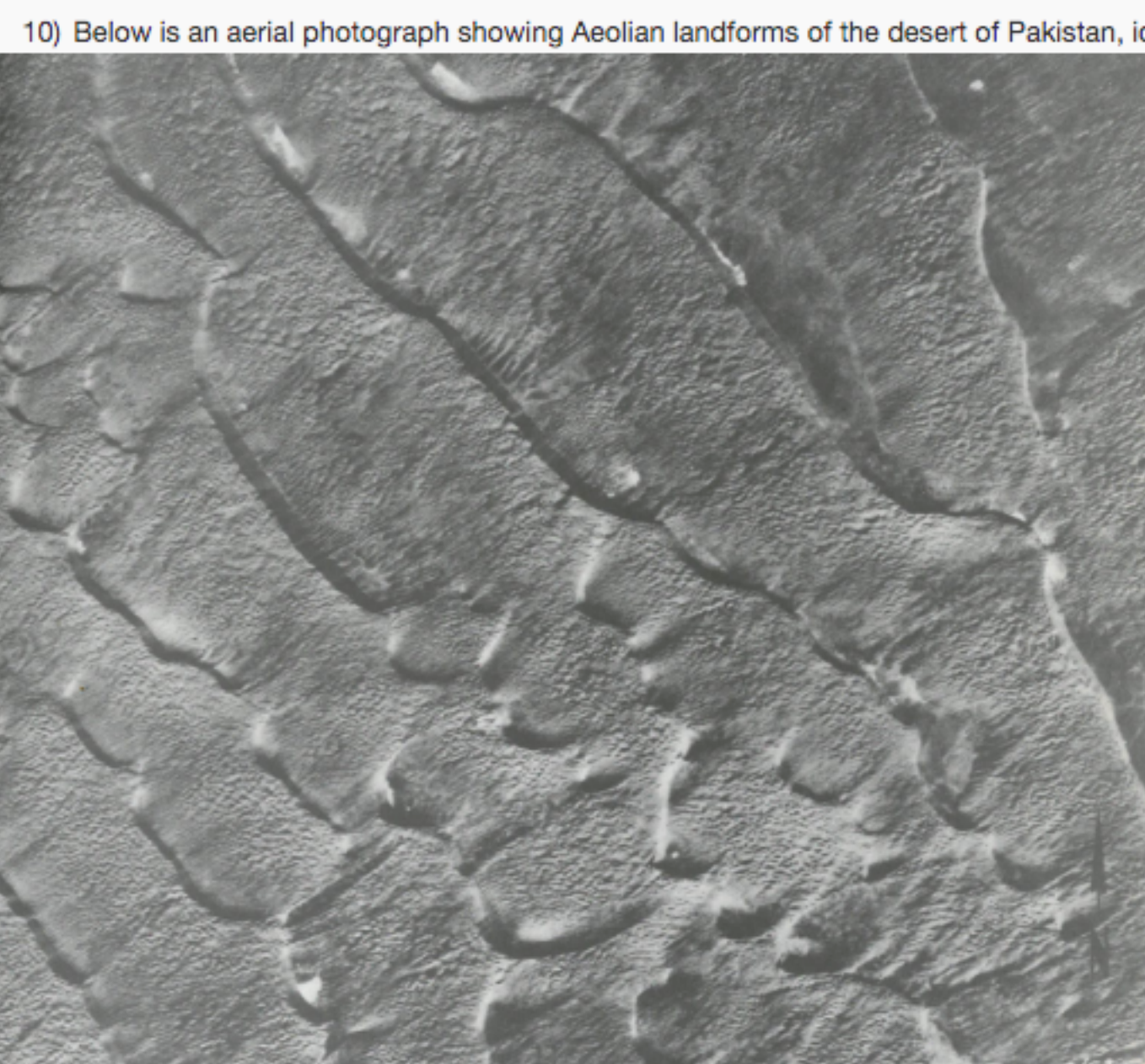
- Newly Emerged Sandy Beach due to Uplift
- Extended Wave-cut Platform due to Uplift
- Vertically Stratified and Folded Strata
- All of these

No, the answer is incorrect.

Score: 0

Accepted Answers: All of these

10) Below is an aerial photograph showing Aeolian landforms of the desert of Pakistan, identify the most prominent landforms?



- Barchans and Parabolic Dunes
- Longitudinal and Barchans Dunes
- Transverse and Longitudinal Dunes
- Transverse and Parabolic Dunes

No, the answer is incorrect.

Score: 0

Accepted Answers: Longitudinal and Barchans Dunes