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reviewer4@nptel.iitm.ac.in ⌄

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Remote Sensing and Digital Image Processing of Satellite Data (course)

Announcements (announcements)   **About the Course (https://swayam.gov.in/nd1_noc19_ce38/preview)**

Ask a Question (forum)   Progress (student/home)   Mentor (student/mentor)

Unit 9 - WEEK -7

Course outline

How to access the portal

Model Assignment

WEEK-1

WEEK-2

WEEK-3

WEEK-4

WEEK-5

WEEK-6

WEEK -7

○ Multispectral transforms: scatter plot, principal component analysis and decorrelation stretch (unit? unit=42&lesson=43)

Assignment 7

The due date for submitting this assignment has passed. Due on 2019-10-16, 23:59 IST. As per our records you have not submitted this assignment.

1) Ratio transformations can be used to reduce the effects of: *1 point*

○ Topography
○ Atmosphere
○ Vegetation
○ Clouds

No, the answer is incorrect.
Score: 0
Accepted Answers:
Topography

2) The image-to-world transformation is a …… -parameter Affine Transformation: *1 point*

○ Six
○ Five
○ Four
○ Three

No, the answer is incorrect.
Score: 0
Accepted Answers:
Six

3) What is meant by the term 'spatial filtering' in remote sensing?   *1 point*

○ Changing the position of pixels in an image because of inconsistencies in the relationship between sensor and surface during data collection.

○ Making parts of the image at a different scale to another part of the image

○ Separating a scene into separate constituent parts and focusing on a smaller section to increase the resolution

○ Selectively preserving certain pixel frequencies in an image to enhance particular features or edges of objects

No, the answer is incorrect.
Score: 0

Accepted Answers:
Selectively preserving certain pixel frequencies in an image to enhance particular features or edges of objects

4) In which image file format each line of the data followed immediately by the next line in the   **1 point**
same spectral band?

○ BSQ

○ BIL

○ BIP

○ BSP

No, the answer is incorrect.
Score: 0

Accepted Answers:
BSQ

5) The first pixel for all bands in sequential order, followed by the second pixel for all bands,   **1 point**
followed by the third pixel for all bands, etc., interleaved up to the number of pixels is called:

○ BSQ

○ BIL

○ BIP

○ BSP

No, the answer is incorrect.
Score: 0

Accepted Answers:
BIP

6) In which image file format the first line of the first band followed by the first line of the second   **1 point**
band, followed by the first line of the third band, interleaved up to the number of bands:

○ BSQ

○ BIL

○ BIP

○ BSP

No, the answer is incorrect.
Score: 0

Accepted Answers:
BIL

7) Which image file format is good where 20-60 bands are present: **1 point**

○ BSQ

○ BIL

○ BIP

○ BSP

No, the answer is incorrect.
Score: 0

Accepted Answers:
BIL

8) Modification of an image to alter its impact on viewer / interpreter is?   *1 point*

○ Image Enhancement

○ Geometric correction

○ Atmospheric correction

○ Radiometric correction

No, the answer is incorrect.
Score: 0

Accepted Answers:
Image Enhancement

9) Which colour is having largest wavelength in visible spectrum?   *1 point*

○ Red

○ Blue

○ Green

○ Yellow

No, the answer is incorrect.
Score: 0

Accepted Answers:
Red

10)Expands the original input values to make use of the total range of the sensitivity of the display *1 point*
device is called:

○ Radiometric enhancement

○ Contrast enhancement

○ Geometric enhancement

○ Atmospheric enhancement

No, the answer is incorrect.
Score: 0

Accepted Answers:
Contrast enhancement