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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 7 - WEEK-5

Course outline

How to access the portal

Model Assignment

WEEK-1

WEEK-2

WEEK-3

WEEK-4

WEEK-5

● What is a remote sensing image and how it is represented? (unit? unit=30&lesson=31)

○ Different techniques of Image acquisition (unit? unit=30&lesson=32)

Assignment 5

The due date for submitting this assignment has passed. **Due on 2019-10-02, 23:59 IST.**
As per our records you have not submitted this assignment.

1) "Pixel" is the smallest unit of _____.   *1 point*

   ○ An analogue image

   ○ A digital Image

   ○ A photographic film

   ○ A photograph

No, the answer is incorrect.
Score: 0

Accepted Answers:
A digital Image

2) A digital image is a numeric representation of a two-dimensional: *1 point*

   ○ Vector

   ○ Matrix

   ○ Text

   ○ Alpha-numeric characters

No, the answer is incorrect.
Score: 0

Accepted Answers:
Matrix

3) Pixel value (dn) depends on _____   *1 point*

   ○ Colour of the object

   ○ Brightness/emissivity of the object

○ Wavelength of the radiation

○ None of above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Brightness/emissivity of the object

4) By itself, the term "digital image" usually refers to: *1 point*

○ Vector image

○ Triangulated irregular network image

○ Faster image

○ Raster image

No, the answer is incorrect.
Score: 0

Accepted Answers:
Raster image

5) Image can have only ____ integer pixel values; whereas grid can have ____ and ____ real   *1 point*
and ____ cell values.

○ Negative, Negative, Positive, Integer

○ Positive, Negative, Negative, Integer

○ Positive, Positive, Negative, Integer

○ Negative, Positive, Positive, Real

No, the answer is incorrect.
Score: 0

Accepted Answers:
Positive, Positive, Negative, Integer

6) How many total shades of grey or colours an 8-bits image will have: *1 point*

○ 64

○ 128

○ 256

○ 257

No, the answer is incorrect.
Score: 0

Accepted Answers:
256

7) The range of pixel values in an 8-bits image is: *1 point*

○ 1 – 256

○ 0 – 255

○ 1 – 255

○ 0 – 256

No, the answer is incorrect.
Score: 0

Accepted Answers:
0 – 255

8) Which types of images are created when the imaging sensor is sensitive to a wide range of   *1 point*
wavelengths of light, typically spanning a large part of the visible part of the spectrum?

○ Multispectral

○ Hyperspectral

○ Panchromatic

○ None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Panchromatic

9) The main difference between multispectral and hyperspectral is the _____ of bands and how _____ the bands are: **1 point**

○ Number, narrow

○ Sum, wide

○ Number, wide

○ Sum, extensive

No, the answer is incorrect.
Score: 0

Accepted Answers:
Number, narrow

10)In a standard False Colour Composite (FCC) red colour is assigned to: **1 point**

○ Visible band

○ Infrared band

○ Ultra violet band

○ Thermal infrared band

No, the answer is incorrect.
Score: 0

Accepted Answers:
Infrared band