

Seat No.

M.A. (SEM/CR) CBCS Part-II Semester-III Examination: October/November-2022
Geography (Compulsory) Paper-X
GEOC28: Fundamentals of RS & DIM

Day and Date: Saturday, 17/12/2022
Time: 3.30 PM To 5.30 PM

Total Marks: 60

Instructions:

1. All Questions are Compulsory.
2. All Questions carry equal marks.
3. Figures to the right indicate full marks
4. Draw the diagram wherever necessary.
5. Allowed to use map stencil, if necessary

Q.1. Choose the Correct alternatives from the following.

15

- 1 Which type of remote sensing uses its own source of electromagnetic energy?
A) Passive B) Active C) Turbo D) Orbital
- 2 In visible region, the blue light is having a wavelength range of _____
A) 380 - 500 nm B) 1 - 15 mm C) 0.10 - 0.00257 nm D) 15 - 48 mm
- 3 When we use one band of EMS to acquire an image then the image known as _____ image.
A) hyperspectral B) multispectral C) super spectral D) panchromatic
- 4 Which scattering occurs caused by large atmospheric particles, including dust, pollen, smoke, and water droplets?
A) Non-Selective B) Rayleigh C) Mie D) UV
- 5 Which scattering occurs at the altitude of 0 to 5 km?
A) Mie B) Rayleigh C) Non-Selective D) UV
- 6 Which is not related to aerial photography among options given below?
A) Flying height B) Focal Length C) Parallax D) Geostationary Satellite
- 7 Overlapping in the direction of flight can be described as _____.
A) Forward overlap B) Side lap C) Backward overlaps D) Adjacent overlap
- 8 -----photographs are those made with the camera axis directed as vertically as possible.
A) Terrestrial B) Cloud C) Low oblique D) Vertical
- 9 ----- is the line joining opposite fiducial marks on a photograph.
A) Fiducial mark B) Fiducial axis C) Exposure station D) Focal Length

- 10 --- photo film was the first widely used aerial photography film.
A) Black and White B) Colour C) Infrared D) Colour Infrared
- 11 ----- satellite acts as a communication channel between the transmitter and the receiver based on different locations on Earth.
A) Earth Observation B) Communication C) Astronomical D) Navigational
- 12 ----- satellites are predominantly used to monitor and record the Earth's climate and weather.
A) Earth Observation B) Communication C) Astronomical D) Meteorological
- 13 ----- the first of the series of indigenous state-of-art operating remote sensing satellites of India.
A) IRS-1A B) IRS-1B C) IRS-1C D) IRS-1D
- 14 ---- satellite system is the largest constellation of remote sensing satellites for civilian use in operation today in the world
A) LANDSAT B) SPOT C) IRS D) QuickBird
- 15 ---- was a high-resolution commercial earth observation satellite, owned by DigitalGlobe launched in 2001.
A) LANDSAT B) SPOT C) Sentinels D) QuickBird

Q.2. Write short Notes (Three out of Four) .

15

- 1 Scope and development of remote sensing
- 2 Types of Resolution in remote sensing
- 3 Geometry of aerial photographs
- 4 Earth observation Satellite

Q.3. Write short Answers (Three out of Four) .

15

- 1 Explain Thermal remote sensing.
- 2 What is Stereoscopy?
- 3 Describe Remote Sensing Scenario in Indian Context.
- 4 Give brief information of Quickbird

Q.4.. Answer the following question on broad. (One out of two).

15

- 1 Describe the elements of photo interpretation.
 - 2 Explain orbital and sensor characteristics of IRS.
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Model Answer Paper

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Q.1. Choose the Correct alternatives from the following.

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1 Which type of remote sensing uses its own source of electromagnetic energy?

A) Passive B) Active C) Turbo D) Orbital

Option 2

2 In visible region, the blue light is having a wavelength range of _____

A) 380 - 500 nm B) 1 - 15 mm C) 0.10 - 0.00257 nm D) 15 - 48 mm

Option 1

3 When we use one band of EMS to acquire an image then the image known as _____ image.

A) hyperspectral B) multispectral C) super spectral D) panchromatic

Option 4

4 Which scattering occurs caused by large atmospheric particles, including dust, pollen, smoke, and water droplets?

A) Non-Selective B) Rayleigh C) Mie D) UV

Option 3

5 Which scattering occurs at the altitude of 0 to 5 km?

A) Mie B) Rayleigh C) Non-Selective D) UV

Option 2

6 Which is not related to aerial photography among options given below?

A) Flying height B) Focal Length C) Parallax D) Geostationary Satellite

Option 4

7 Overlapping in the direction of flight can be described as _____.

A) Forward overlap B) Side lap C) Backward overlaps D) Adjacent overlap

Option 1

8 -----photographs are those made with the camera axis directed as vertically as possible.

A) Terrestrial B) Cloud C) Low oblique D) Vertical

Option 4

9 ----- is the line joining opposite fiducial marks on a photograph.

A) Fiducial mark B) Fiducial axis C) Exposure station D) Focal Length

Option 2

10 --- photo film was the first widely used aerial photography film.

A) Black and White B) Colour C) Infrared D) Colour Infrared

Option 1

11 ----- satellite acts as a communication channel between the transmitter and the receiver based on different locations on Earth.

A) Earth Observation B) Communication C) Astronomical D) Navigational

Option 2

12 ----- satellites are predominantly used to monitor and record the Earth's climate and weather.

A) Earth Observation B) Communication C) Astronomical D) Meteorological

Option 4

13 ----- the first of the series of indigenous state-of-art operating remote sensing satellites of India.

A) IRS-1A B) IRS-1B C) IRS-1C D) IRS-1D

Option 1

14 ---- satellite system is the largest constellation of remote sensing satellites for civilian use in operation today in the world

A) LANDSAT B) SPOT C) IRS D) QuickBird

Option 3

15 ---- was a high-resolution commercial earth observation satellite, owned by DigitalGlobe launched in 2001.

A) LANDSAT B) SPOT C) Sentinels D) QuickBird

Option 4

Q.2. Write short Notes (Three out of Four) .

15

1 Scope and development of remote sensing

Ans:

2 Types of Resolution in remote sensing

Ans:

3 Geometry of aerial photographs

Ans:

4 Earth observation Satellite

Ans:

Q.3. Write short Answers (Three out of Four) .

15

1 Explain Thermal remote sensing.

Ans:

2 What is Stereoscopy?

Ans:

3 Describe Remote Sensing Scenario in Indian Context.

Ans:

4 Give brief information of Quickbird

Ans:

Q.4.. Answer the following question on broad. (One out of two).

15

1 Describe the elements of photo interpretation.

Ans:

- 2 Explain orbital and sensor characteristics of IRS.

Ans:
