

Unit 4 - Week 3

Course outline

How does an NPTEL online course work?

Week 1

Week 2

Week 3

• Errors in GPS Observables

• GPS Data Pre-processing: Differencing

• GPS Data Pre-processing: Point Positioning

• GPS Data Processing: Baseline Processing

• GPS Data Processing: Network Adjustment

• Quiz : Assessment 3

Week 4

Week 5

Week 6

Week 7

Week 8

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Weekly Feedback

Assessment 3

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

Due on 2020-03-18, 23:59 IST.

1) Type of errors present in GPS observables arising out of GPS system is known as

1 point

- Gross error
 Random error
 Systematic error
 Unknown error

No, the answer is incorrect.
Score: 0

Accepted Answers:
Systematic error

2) Different types of errors associated with different types of codes and carrier ranges are

1 point

- Equal in ranges from different codes
 Equal for ranges from all carriers
 Unequal in ranges different codes but equal in carrier ranges
 Unequal for ranges from all codes as well as that of carriers

No, the answer is incorrect.
Score: 0

Accepted Answers:
Unequal for ranges from all codes as well as that of carriers

3) _____ types of differencing techniques are available for pre-processing of GPS observables

1 point

- 1
 2
 3
 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
3

4) Double-differencing provides _____ types of new observables

1 point

- 1
 2
 3
 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
2

5) For GPS positioning, GPS observables are required from at least ----- satellite/s

1 point

- 3
 4
 5
 6

No, the answer is incorrect.
Score: 0

Accepted Answers:
4

6) Any GPS positioning requires processing of at least

1 point

- L1 with C/A code
 L2C
 L5
 C/A code

No, the answer is incorrect.
Score: 0

Accepted Answers:
C/A code

7) Estimation of three components of a vector between the reference and rover stations is known as -----.

1 point

- GPS Positioning
 Ranging
 Baseline Solution
 GPS timing

No, the answer is incorrect.
Score: 0

Accepted Answers:
Baseline Solution

8) In relative positioning, weighted Least Square method is applied to take into account the _____ of GPS observables.

1 point

- Correlation
 Redundancy
 Errors
 Inadequacy

No, the answer is incorrect.
Score: 0

Accepted Answers:
Correlation

9) Analysis of GPS network consists of ----- stages.

1 point

- 1
 2
 3
 4

No, the answer is incorrect.
Score: 0

Accepted Answers:
3

10) In baseline processing, unknown position of _____ gets determined with respect to _____.

1 point

- Reference station, Rover station
 Reference station, Virtual Reference station
 Rover station, known rover station
 Rover station, Reference station

No, the answer is incorrect.
Score: 0

Accepted Answers:
Rover station, Reference station