УТВЕРЖДАЮ

Заведующий кафедрой

общего землеведения и гидрометеорологии

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Ю.А. Гледко

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**Вопросы**

**для проведения зачета по учебной дисциплине**

**«Automated Systems in Hydrometeorolog» /**

**«Автоматизированные системы в гидрометеорологии»**

**(иностранная магистратура)**

Форма проведения – устная

1. Python interpreter. Invoking the Interpreter.
2. Argument Passing. Interactive Mode.
3. Data Structures. Lists. Using Lists as Queues. List Comprehensions.
4. The del statement. Tuples and Sequences. Sets. Dictionaries.
5. Looping Techniques. Set Conditions.
6. Comparing Sequences and Other Types.
7. Modules. Executing modules as scripts.
8. Function. Packages. Importing From a Package.
9. Control Flow Tools.
10. if Statements. for Statements.
11. The range() Function.
12. Break and continue Statements, else Clauses on Loops.
13. Pass Statements. Match Statements.
14. Defining Functions. Default Argument Values. Keyword Arguments.
15. Arbitrary Argument Lists.
16. Lambda Expressions.
17. Documentation Strings. Function Annotations.
18. Formatted String Literals. The String format() Method.
19. Reading and Writing Files. Methods of File Objects.
20. Saving structured data with json.
21. Errors and Exceptions.
22. Syntax Errors. Exceptions. Handling Exceptions.
23. Classes. Names and Objects.
24. Python Scopes and Namespaces.
25. Class Objects. Instance Objects. Method Objects.
26. Class and Instance Variables. Random Remarks.
27. Inheritance. Multiple Inheritance.
28. Private Variables. Odds and Ends.
29. Iterators. Generators. Generator Expressions.
30. Standard Libraries.
31. Error Output Redirection
32. String Pattern Matching.
33. Dates and Times.
34. Data Compression.
35. Performance Measurement.

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