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MCA (PART-II) (SEMESTER - III) (CBCS)

Examination, April 2024

JAVA PROGRAMMING

Sub. Code : 83603

Day and Date : Thursday, 16/05/2024

Total Marks : 70

Time : 10.30 a.m. to 1.30 p.m.

- Instructions :
- 1) Question No. 1 and question No. 7 are compulsory.
  - 2) Attempt any Three question from Q. No. 2 to Q. No. 6.
  - 2) Figures to right indicate Full marks.

Q1) Multiple choice questions

[08]

- 1) Which statement is true about Java?
  - A) Platform independent programming language
  - B) Platform dependent programming language
  - C) Code dependent programming language
  - D) Sequence dependent programming language
- 2) What is mean by 'this keyword in Java'
  - A) It refers current object
  - B) It refers previous object
  - C) It is variable which contains value
  - D) None of the above
- 3) Which of the following handles the exception when a catch is not used?
  - A) Finally
  - B) Throw handler
  - C) Default handler
  - D) Java run time system

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- Q5) A) What is exception? How to handle exception in java? [07]  
B) What is Multi-threading? How to create thread? Explain with suitable example. [07]
- Q6) A) How to use BufferedReader and BufferedWriter classes for input/output stream handling. [07]  
B) Explain event-handling mechanism using swing with example. [07]
- Q7) Write short notes. (Any Four) [20]
- 1) Java Garbage Collection
  - 2) Java Packages
  - 3) Date class in Java
  - 4) Inner class
  - 5) Thread priorities.
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**March-April 2024 Examination**  
**MCA (COMM.) CBCS Part II Sem III**  
**Data Analytics (DATA A)**  
**Subject Code : 83604**

**Day and Date : Friday, 17-05-2024**  
**Time : 10:30 am to 01:30 pm**

**Total Marks : 70**

**Instructions :**

- There are seven questions.
- Question No1 and Question No 7 are compulsory.
- Attempt any three questions from Question No 2 to Question No 6

**Q.1 Choose correct alternatives for following questions from options given below.** **8**

- 1) Using ndim we can find -
  - a) We can find the dimension of the array
  - b) Size of array
  - c) Operational activities on Matrix
  - d) None of the mentioned above
- 2) NumPy arrays can be .....
  - a) Indexed
  - b) Sliced
  - c) Iterated
  - d) All of the mentioned above

3) The ..... function returns its argument with a modified shape, whereas the ..... method modifies the array itself.

- a) reshape, resize
- b) resize, reshape
- c) reshape2, resize
- d) all of the mentioned

4) Pandas is an open-source ..... Library?

- a) Ruby
- b) Javascript
- c) Java
- d) Python

5) Pandas key data structure is called?

- a) Keyframe
- b) DataFrame
- c) Statistics
- d) Econometrics

6) What will be output for the following code?

```
import pandas as pd
s=pd.Series([1,2,3,4,5], index = ['a','b','c', 'd','e'])
print s['a']
```

- a) 1
- b) 2
- c) 3
- d) 4

7) What will be output for the following code?

```
import pandas as pd
import numpy as np
s = pd.Series(np.random.randn(2))
print s.size
```

- a) 0
- b) 1
- c) 2
- d) 3

- 8) What is the purpose of NumPy in Python?
- To do numerical calculations
  - To do scientific computing
  - Both A and B
  - None of the mentioned above
- Q.2 a) What is Data Analysis? Explain different types of Data Analysis. 7
- b) Write difference between Data Analysis and Data Reporting. 7
- Q.3 Explain Indexing, Selection, and Filtering for series. 14
- Describe Panda's data structures. 7
  - What is missing data? Explain different techniques used to handle missing data. 7
- Q.5 a) Describe data transformation with appropriate example. 7
- b) Explain reading and writing data in text Format with appropriate example. 7
- Q.6 Write a Pandas program to convert the second column of a Dataframe as a Series. 14
- Q.7 Write short note on any four. 20
- Web Scraping
  - Universal Functions in Numpy
  - Pseudorandom Number Generation
  - Reading Microsoft Excel Files
  - Characteristics of Data Analysis

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**M. C. A. (COMMERCE & MANAGEMENT) Part II (Semester - III)**

**Examination, April - 2024**

**Optional Group**

**Cloud Computing (Paper No. DSE 304.1)**

**Sub. Code : 83608**

**Day and Date : Tuesday, 21/05/2024**

**Total Marks : 70**

**Time : 10.30 a.m. to 1.30 p.m.**

- Instructions :**
- 1) Attempt any three from Q. 2 to Q. 6.**
  - 2) Q. 1 and Q. 7 is compulsory.**
  - 3) Figures to the right indicate marks to the question.**

**Q.1 Select correct alternative.**

**[8]**

- 1) Which of the following is among the primary uses of cloud computing?
  - A) Security
  - B) Data storage
  - C) Data privacy
  - D) Operational cost
- 2) Private cloud computing cost productivity depends on\_
  - A) Economies of scale
  - B) Higher workload density
  - C) Dynamic management
  - D) All of these
- 3) What is the risk of cloud computing?
  - A) No troubleshooting issues
  - B) Full control over the data
  - C) Storing data without control
  - D) No government intrusion
- 4) Which is security aspects consider in cloud services?
  - A) Zero infrastructure investment, just-in-time infrastructure
  - B) Access control, identity management, authentication and authorization
  - C) Quick and easy setup, smooth organization system, single management environment
  - D) Calculable cloud architecture, provide manageable workload dynamics





**Q. 7 Write short notes on (Any Four)**

[20]

- a) Cloud Architecture
  - b) Advantages and disadvantages of cloud computing
  - c) Live Storage Migration of Virtual Machines
  - d) Disaster Recovery in Clouds
  - e) Risk with Application Licensing
  - f) Risk of Multi-tenant environment
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