

M.Sc.(IT & CA) Semester - 3 (CBCS) Examination
DEC/JAN. - 2020 - [NEW COURSE]
Programming With R For Data Science (Core (New))

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figure to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

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| Q.1(A) | Answer the following question. | (03) |
| | <ol style="list-style-type: none">1. Command for combining list2. How to convert vector to list3. Command for vector recycling | |
| Q.1(B) | Give the answer of the following question in detail. (any two) | (06) |
| | <ol style="list-style-type: none">1. Explain datatypes in R2. Matrix3. List4. Dataframe | |
| Q.1(C) | Answer the following question in detail. (any one) | (05) |
| | <ol style="list-style-type: none">1. What is data analysis? What is their needs? Explain with classification & characteristics of data.2. Explain data input in detail. | |
| Q.2(A) | Give the use of following directory in one sentence. | (03) |
| | <ol style="list-style-type: none">1. Sapply2. Lapply3. Dplyr | |
| Q.2(B) | Give the use of following question in short. (any two) | (06) |
| | <ol style="list-style-type: none">1. Condition in R2. Factors in R3. Explain formatting of string in R4. Debugging and error finding in R | |
| Q.2(C) | Give the answer of the following in detail. (any one) | (05) |
| | <ol style="list-style-type: none">1. Explain loops & advanced loops in R2. Explain string handling function in R | |
| Q.3(A) | Give the meaning of following date time code. | (03) |
| | <ol style="list-style-type: none">1. %a2. %m3. %B | |
| Q.3(B) | Give the answer of following question in detail. (any two) | (06) |
| | <ol style="list-style-type: none">1. Date formatting2. Time formatting3. Use of library function in package management4. Maintaining package in R | |
| Q.3(C) | Give the answer of the following question in detail. (any one) | (05) |
| | <ol style="list-style-type: none">1. Package management in R2. Date & time in R | |
| Q.4(A) | Give the meaning of following option of graph. | (03) |
| | <ol style="list-style-type: none">1. Main2. Col3. Xlab | |

- Q.4(B) Give the answer of the following question in detail. (any two) (06)
1. How to load xml file in R
 2. How to load jeson file in R
 3. How to load excel file in R
 4. How to draw histogram in R
- Q.4(C) Give the answer of the following question in detail. (any one) (05)
1. Explain CRUD operation with mysql database in R with suitable example.
 2. Explain Data vasualisation in R with Graph with suitable example.
- Q.5(A) Give the answer of following question in short. (03)
1. Structured data (big data) analytics
 2. Unstructured data (big data) analytics
 3. Semi structured data (big data) analytics
- Q.5(B) Give the answer of the following question in detail. (any two) (06)
1. How to do big data analytics in R
 2. Explain typical analytical process
 3. How to summarized & presented your data in R
 4. Available data collection method in Detail for R
- Q.5 (C) Give the answer of the following question in detail. (any one) (05)
1. Explain R report generation in detail
 2. How to manage data using available analytical tools in R
