



Seat No. \_\_\_\_\_

**HAL-003-1083003**

**M. Sc. (IT & CA) (Sem.-III) (CBCS)**

**(W.E.F. 2016) Examination**

**June - 2023**

**CS-15 : Programming With R for Data Science**

**Faculty Code : 003**

**Subject Code : 1083003**

Time :  $2\frac{1}{2}$  Hours / Total Marks : 70

- 1 (a) Answer the following: 4
- (1) CRAN stands for \_\_\_\_\_.
  - (2) CSV stands for \_\_\_\_\_.
  - (3) OLAP stand for \_\_\_\_\_.
  - (4) DA helps for decision making? True or False.
- (b) Answer the following : (any one) 2
- (1) What is data analytics?
  - (2) What is recycling rule?
- (c) Answer the following: (any one) 3
- (1) Explain characteristics of data analysis.
  - (2) Explain Matrix.
- (d) Answer the following: (any one) 5
- (1) Explain classification of data.
  - (2) Explain vectors.
- 2 (a) Answer the following: 4
- (1) The \_\_\_\_\_ is used to set the levels for the factor.
  - (2) A <- "hello "hi how are you?". Give answer this sentences is valid or invalid?
  - (3) Supply stands for \_\_\_\_\_.
  - (4) Factors are the data objects that categories the data and store it. True or False.

- (b) Answer the following: (any **one**) 2
- (1) Explain string function that convert string uppercase and string lowercase with example.
  - (2) Explain if and else with example.
- (c) Answer the following: (any **one**) 3
- (1) Explain replication.
  - (2) Explain break and next statement with example.
- (d) Answer the following: (any **one**) 5
- (1) Explain loop.
  - (2) Explain factor.
- 3** (a) Answer the following: 4
- (1) R packages are a collection of R functions / compiled code and simple data. True or False.
  - (2) UTC stands for \_\_\_\_\_.
  - (3) GMT stands for \_\_\_\_\_.
  - (4) Sys-Date returns \_\_\_\_\_.
- (b) Answer the following: (any **one**) 2
- (1) Explain CRAN.
  - (2) What is UTC and GMT?
- (c) Answer the following: (any **one**) 3
- (1) Explain Namespace.
  - (2) Explain Data in R.
- (d) Answer the following: (any **one**) 5
- (1) Explain EST and Time zone.
  - (2) Give the steps for install and load the packages.
- 4** (a) Answer the following: 4
- (1) JSON stands for \_\_\_\_\_.
  - (2) Which function is used to disconnect connection from database?
  - (3) hist( ) is used for \_\_\_\_\_.
  - (4) Which library is used to read json file.
- (b) Answer the following : (any **one**) 2
- (1) Explain histogram.
  - (2) Explain setwd( ) and getwd( ).

- (c) Answer the following: (any **one**) **3**  
(1) Explain plot( ).  
(2) Explain scatter plots.
- (d) Answer the following: (any **one**) **5**  
(1) Convert xml file into dataframe with example.  
(2) Explain the flow to connect R with MySql with example.
- 5** (a) Answer the following: **4**  
(1) .md extension stands for \_\_\_\_\_.  
(2) RDBMS full form \_\_\_\_\_.  
(3) The knitr package was designed to be a transparent engine for dynamic report generation with R. True or False.  
(4) Extension of R markdown file is?
- (b) Answer the following: (any **one**) **2**  
(1) Explain big data.  
(2) Explain graphical methods for data presentation.
- (c) Answer the following: (any **one**) **3**  
(1) Explain filter.  
(2) Explain report.
- (d) Answer the following: (any **one**) **5**  
(1) Explain Data Collection Method.  
(2) Explain R markdown.
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