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**Question Paper Code: 58266**

B.E. / B.Tech.DEGREE EXAMINATION, NOV 2019

One credit course

Computer Science Engineering

15UCS866 - R PROGRAMMING

(Regulation 2015)

Duration: 1.30 hours

Maximum: 50 Marks

Answer ALL Questions

PART A - (20 x 1 = 20 Marks)

1. \_\_\_\_\_ programming language is a dialect of S. CO1- R  
(a) B (b) C (c) R (d) K
2. Which of the following is used for reading in saved workspaces ? CO1- R  
(a) unserialize (b) load (c) get (d) None of the mentioned
3. Finally, in \_\_\_\_\_ R version 1.0.0 was released to the public CO1 -R  
(a) 2000 (b) 2005 (c) 2010
4. Point out the WRONG statement : CO1 -R  
(a) Early versions of the S language contain functions for statistical modeling  
(b) The book Programming with Data by John Chambers documents S version of the language  
(c) In 1993 Bell Labs gave StatSci (later Insightful Corp.) an exclusive license to develop and sell the S language  
(d) All of the mentioned
5. In 1991, R was created by Ross Ihaka and Robert Gentleman in the Department CO1 -R  
of Statistics at the University of \_\_\_\_\_.  
(a) John Hopkins (b) California (c) Harvard (d) Auckland

6. `debug()` flags a function for \_\_\_\_\_ mode in R mode. CO1 -R
- (a) debug                      (b) run                      (c) compile                      (d) All of the mentioned
7. The copyright for the primary source code for R is held by the \_\_\_\_\_ Foundation. CO2 -R
- (a) A                      (b) S                      (c) C                      (d) R
8. If commands are stored in an external file, say `commands.R` in the working directory work, they may be executed at any time in an R session with the command : CO2 -R
- (a) `source("commands.R")`                      (b) `exec("commands.R")`  
(c) `execute("commands.R")`                      (d) All of the mentioned
9. If a command is not complete at the end of a line, R will give a different prompt, by default it is : CO2 -R
- (a) \*                      (b) +                      (c) –                      (d) All of the mentioned
10. Elementary commands in R consist of either \_\_\_\_\_ or assignments. CO2 -R
- (a) `utilstats`                      (b) language                      (c) expressions                      (d) None of the mentioned
11. Bitmapped file formats can be most useful for CO2 -R
- (a) Plots that may need to be resized  
(b) Plots that require animation or interactivity  
(c) Plots that are not scaled to a specific resolution p  
(d) Scatterplots with many many points
12. \_\_\_\_\_ text editor provides more general support mechanisms via ESS for working interactively with R. CO2- R
- (a) EAC                      (b) EAC                      (c) Shell                      (d) None of the above
13. Which of the following code constructs vector of length 11 ? CO2 -R
- (a) `> v <- 3*x + y + 1`                      (b) `> v <- 3*x + y + 2`  
(c) `> v <- 3*x + y + 2`                      (d) All of the mentioned
14. The \_\_\_\_ function can be used to create vectors of objects by concatenating things together. CO2 -R
- (a) `cp()`                      (b) `c()`                      (c) `concat()`                      (d) None of the mentioned

15. The entities that R creates and manipulates are known as CO3-R
- (a) objects (b) task (c) container (d) All of the mentioned
16. Which of the following is an example of a vector graphics device in R? CO3- R
- (a) JPEG (b) PNG (c) GIF (d) SVG
17. Spread function is known as \_\_\_\_\_ in spreadsheets. CO3- R
- (a) pivot (b) unpivot (c) cast (d) order
18. \_\_\_\_\_ uniforms and customizes plots of packages ggplot2, graphics and lattice. CO3-R
- (a) uniCox (b) uniPlot (c) unknownR (d) None of the mentioned
19. \_\_\_\_\_ is used for outputting a textual representation of an R object CO3-R
- (a) dput (b) dump (c) dget (d) All of the mentioned
20. Collection of objects currently stored in R is called as \_\_\_\_\_. CO3-R
- (a) package (b) workspace
- (c) list (d) none of the mentioned

### PART – B (2 x 15= 30 Marks)

21. (a) Describe Looping statements in R Programming. CO2-U (15)
- Or
- (b) How will you read data from files in R language? Explain. CO1 -U (15)
22. (a) Describe Predictive Modeling Techniques CO3-U (15)
- Or
- (b) (i) Draw the pie chart for given Data consists of 21, 62, 10, 53, "London", "New York", "Singapore", "Mumbai". CO2-U (8)
- (ii) Create Bar plot for Revenue Chart CO2-U (7)

