

2 marks

3 marks

| Enrolment No: | Name of Student: | | | | | | | |
|---|------------------|---------------------------------|---------------------------|---|---|------------------------------|--------------|--|
| Department/ School: | | | ···· | | | | | |
| END TE | RM EXAI | MINATIO | ON ODD S | SEMEST. | ER 2022- | 23 | | |
| COURSE CODE CBC | | | | MAX. DURATION | | | 2 HRS | |
| COURSE TITLE Data Analysis Using Python COURSE CREDIT 2-0-4 | | | | TOTAL MARKS | | | 15 Marks | |
| GENERAL INSTRUC | TIONS: - | - | | | | | | |
| 1. Do not write anyth | ing on th | e questio | n paper e | except n a | me, enre | olment n | umber and | |
| department/school. | | | | | | | | |
| 2. Carrying mobile ph | ione, smar | t watch | and any | other nor | n-permissi | ble mate | rials in the | |
| examination hall is a | act of UF | M. | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Q 1. Summarize the basic ac | tivities of d | lata scienti | ist as a par | t of data s | cience pip | eline? | 1 mark | |
| Q 2. Determine the output of | given pyth | on statem | ent? | | ŧ | | | |
| employee [(employee [' | deaths'] > | 400) (en | nployee [ˈ | deaths'] < | 40)] | | 1 mark | |
| Q 3. Explain the "Histogram | " and write | a python | code and o | draw a his | togram fo | r the follo | wing data | |
| distribution: | | | | | | | 2 marks | |
| Class Intervals | 20-30 | 30-45 | 45-60 | 60-70 | 70-80 | 80-90 | | |
| Occurrence | 10 | 15 | 25 | 20 | 25 | 5 | | |
| | | Lange on growing System and the | il dindinina opine basina | cara a mana a mana mana mana sa | e en el en en en en el en en el e | era, commencer a restriction | 12.27 - | |
| Q4. What do you understand | by the 'Hy | pothesis'? | Explain 7 | Гуре I erro | or and Typ | e II error. | . 2 marks | |
| Q 5. Explain Normal distribu | ition with i | ts graph, p | roperties, | and equat | ion. | | 2 marks | |
| Q 6. Write the mean and v | ariance for | Bernoull | i distribut | ion. Diffe | rentiate b | etween B | inomial and | |
| Bernoulli distribution. | | | | | | | 2 marks | |

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Q 7. (a) Summarize the characteristics of NumPy, Pandas, Scikit-Learn and matplotlib libraries along

(b) Explain the significance of slicing operation in string of python? Write an example of slicing to

fetch "city" and "pin code" from complete address of person and display it.

with their usage in brief.

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