

D 31761

(Pages : 2)

Name.....

Reg. No.....

**THIRD SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2022**

Common Course for B.Sc. L.R.P. (Alternate Pattern)

A 11—PYTHON PROGRAMMING

(2019 Admission onwards)

Time : Two Hours and a Half

Maximum : 80 Marks

Section A

*Answer all questions.
Each question carries 2 marks.
Maximum ceiling 25 marks.*

1. Give the rules for naming an identifier in Python.
2. What is the purpose not in operator in Python ?
3. What is the use of *eval()* function in Python ?
4. Differentiate between *input()* and *raw_input()* functions in Python.
5. What is the difference between *break* and *continue* statements in Python ?
6. How will you create an infinite loop in Python ?
7. What are lambda functions ?
8. What are keyword arguments in functions ?
9. Differentiate between built-in functions and user-defined functions in Python.
10. What are sets in Python ?
11. How will you reverse a list in Python ?
12. What do you mean by Python dictionary ?
13. What are destructors in Python ?
14. How will you rename a file in Python ?
15. What is the use of import statement in Python ?

Section B

*Answer all questions.
Each question carries 5 marks.
Maximum ceiling 35 marks.*

16. List out the operator precedence in Python.
17. Give an account on arithmetic operators in Python.

Turn over

18. Explain the various decision-making statements in Python.
19. Write a program to find the Least Common Multiple (LCM) of any two positive integer number.
20. Explain *while* loop and *while* loop with *else* case with examples.
21. List the function and syntax any five string formatting functions in Python.
22. Explain the various modes for opening a file in Python.
23. What are the advantages of Object Oriented Programming ? Explain.

Section C

Answer any two questions.

Each question carries 10 marks.

24. A) Explain the salient features of Python programming language. (5 marks)
B) Describe the different ways of writing and executing of Python program. (5 marks)
25. Discuss the different argument passing mechanism in Python with suitable examples.
26. Write a program to find the area and perimeter of a rectangle using class and objects.
27. What are mutable and immutable objects in Python ? Explain any two data types in each of this category and its associated methods with examples.

[2 × 10 = 20 marks]

EMEA COLLEGE OF ARTS AND SCIENCE, KONDOTTI
FIRST SEMESTER (CBCSS-UG) DEGREE INTERNAL
EXAMINATION FEBRUARY 2023

Microbiology

MBG 1 C02-BIOSTATISTICS-I

Time : Two Hours

Maximum : 60 Marks

Use of calculator and Statistical table are permitted.

Part A (Short answer type Questions)

Each question carries 2 marks. Maximum marks that can be scored from this part is 20

1. Define nominal scale.
2. Define histogram.
3. What is random sampling ?
4. Describe geometric mean.
5. Define standard deviation.
6. Define co-efficient of variation.
7. Define random experiment.
8. Define addition theorem of any two events.
9. Define Binomial distribution.
10. Write down any two physical situations where Poisson distribution can be used for probability modelling
11. Define Normal distribution.
12. Sampling distribution

Part B (Short essay/paragraph type Questions)

Each question carries 5 marks. Maximum marks that can be scored from this part is 30

13. Define dispersion. What the various measures of dispersion ? Briefly explain quartile deviation and mean deviation. (PTO)

14. Define frequency polygon. Briefly explain the steps of constructing a frequency polygon.

15. A problem in Statistics is given to three students A, B, and C whose chances of solving it are $\frac{1}{2}$, $\frac{1}{3}$, and $\frac{3}{4}$ respectively. What is the probability that the problem will be solved if all of them try independently ?

16. Obtain the median and standard deviation of the following

X:	1	2	3	4	5	6	7	8	9
f:	8	10	11	16	20	25	15	9	6

17. Find the co-efficient of variation for the following

Age group	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Frequency	28	31	49	56	67	70	892

18. Draw a histogram for the following data

Marks:	14.5-19.5	19.5-24.5	24.5-29.5	29.5-34.5	34.5-39.5	39.5-44.5	44.5-49.5	49.5-54.5	54.5-59.5	59.5-64.5
f:	11	10	44	45	54	37	28	8	5	1

19. A and B play a game in which their chances of winning are in the ratio of 3:2. Find A's chance of winning at least three games out of five games played. (Use Binomial distribution)

Part C (Essay type Questions) Each question carries 10 marks. (Answer any one question) Maximum marks that can be scored from this part is 10.

20. From the following data calculate : (i) Mean ; (ii) Median ; (iii) Mean deviation about mean ; and (iv) Mean deviation about median

X:	170-180	180-190	190-200	200-210	210-220	220-230	230-240	240-250
f:	52	68	85	92	100	95	70	28

21. a) Define normal distribution. What are its properties and applications?

b) The random variable X follows a normal distribution with mean 45 and S.D. 10. Find the probability that i) $X > 60$ ii) $40 < X < 56$

E M E A COLLEGE OF ARTS & SCIENCE kondotti

Ist SEMESTER INTERNAL EXAMINATION 2022-23

B.VOC

MAL 1A 07(3) MALAYALA BHASHAYUM SAHITHYAVUM 1

Time: Two Hours and a Half

80 Marks

Section A

രണ്ടോ മൂന്നോ വാക്യത്തിൽ ഉത്തരം എഴുതുക. 2 മാർക്ക് വീതം.
പരമാവധി മാർക്ക് 25.

1. “നശിപ്പിച്ചിപ്പോയവരാണല്ലോ യാഥാർത്ഥ്യത്തിന് നിരാശപ്പെടേണ്ടത്”
പൊക്കുടന് സൂചിപ്പിക്കുന്നതന്തെന്ത്?
2. ‘ബുദ്ധനും ഞാനും നരിയും’ എന്ന് കവിതയിലെ ബുദ്ധപ്രതിമയുടെ സാംഗത്യം
വ്യക്തമാക്കുക?
3. “പക്ഷേ ഒന്നോടൊന്നും സ
അതേ വിധം കാണ്മാൻ തുടർച്ചയോടെ വരാൻ
നമ്മുടെ ന്യായം” – സൂചിതമെന്ത്?
4. “നാളെത്തന്നെ അച്ഛന്റെ ഉറുള ഇല്ലാടോ!” – സന്ദർഭം എന്ത്?
5. ‘പുവാണിവിട്ടു മുഖം’ യ്വനിതലം വ്യക്തമാക്കുക
6. “ഭയമിന്നു വലിച്ചെറിഞ്ഞിരിപ്പു ഞാനെന്റെ വെളളി-
മതിയടിക്കൊപ്പം വീരാനായത്തിനൊപ്പം” –
ആരുടെ അവസ്ഥയാണിത്?
7. ‘ഇ വികസനം ഇങ്ങനെ തുടർന്നാ കുടിക്കാനുള്ള വെളളവും ഞെട്ടും
ചമ്ചിനും എന്തിന്, പുഴ പലോലും ഓരോമ്മ മാതൃമാകും’ ആരുടെ വാക്യമാണ്?
8. ‘അവൻ രണ്ടു രാജ്യങ്ങളെയും ചീർത്ത പറഞ്ഞു’ ലോലയുടെ ഈ
പ്രതികരണത്തിന് കാരണമെന്ത്?
9. ‘പ്രകടനം സമ്പന്നം ഉദയവാണി’ – സൂചിതമെന്ത്?
10. ഭാവിയിൽ എങ്ങനെ അറിയപ്പെടണം എന്ന് പൊക്കുടന് ആഗ്രഹിച്ചത്?
11. ‘ഇടയുള്ളോ വാദിപ്പി’ വാദം എന്തിനെപ്പറ്റിയാണ്?
12. ‘ഒരു വിധിയാണ് ഞങ്ങളുടെ ഏറ്റവും വലിയ താരം’ ലോല
സൂചിപ്പിക്കുന്നതെന്ത്?
13. “ആളുകൾ കണ്ടു കണ്ടാണ് സ
കടലുകൾ ഇതര വലുതായത്” – വിവക്ഷിതം വ്യക്തമാക്കുക?
14. ‘ഇതല്ലേ മലു നിന്നെയൊരു വർഗ്ഗം മുതലാളന്റെ ചോദ്യത്തിന്റെ
പൊരുളെന്ത്?
15. ഗൃഹനാഥന് നരിയെ വക വരുത്താൻ കാരണമെന്ത്?

(25 മാർക്ക്)

THIRD SEMESTER (CBCSS–UG) DEGREE EXAMINATION NOVEMBER 2022

Common Course (B.Sc. L.R.P. (Alternate Pattern))
ELE 3A 11—PYTHON PROGRAMMING (2019–2020 Admissions)

Time : Two Hours and a Half

Maximum Marks : 80

Section A

Answer at least ten questions. Each question carries 3 marks. All questions can be attended.

1. What is python Virtual machine ?
2. What are keywords or reserved words in python ?
3. What are the different Identity operators in python with examples ?
4. Explain input statements in Python.
5. Write the syntax of while loop.
6. What are infinite loops ?
7. What do you mean by indentation ?
8. What is the purpose of Return statement ?
9. Define keyword arguments in a function.
10. What are global variables ?
11. Define recursion.
12. Define mutable and immutable objects. Give examples.
13. How strings are sliced ?
14. How lists can be accessed using while loop ?
15. What is a set?

(10 × 3 = 30 marks)

Section B

*Answer at least **five** questions. Each question carries 6 marks. All questions can be attended.
Overall Ceiling 30.*

16. Discuss the int(), float(), str(), complex() and list() type conversion functions with examples.
17. Write Python code to solve the quadratic equation $ax^2 + bx + c = 0$ by getting the input coefficient from the user.
19. Write a Python program to find the LCM of two numbers.
20. Discuss zip() function with an example.
21. Explain nested function with an example.
22. Describe the syntax for the following function and explain with an example :
(a) upper(). (b) pop(). (c) title(). (d) index(). (e) split().
23. Distinguish between list, tuple and dictionary.

(5 × 6 = 30 marks)

Section C

*Answer any **two** questions.
Each question carries 10 marks.*

24. Write a Python program to reverse a number and find the sum of the digits in the reversed number.
Prompt the user for input.
25. Illustrate the decision control statements in Python with flow charts.
26. Write a Python program using function to find the sum and average of the elements in a list without using in built functions
27. Write a Python program that accepts a sentence and calculate the number of words, digits, uppercase letters and lowercase letters.

(2 × 10 = 20 marks)