

K20P 1267

Reg. No. :

Name :

III Semester Master of Computer Application (M.C.A.)/M.C.A. (Lateral Entry) Degree (C.B.S.S. – Reg./Suppl. (Including Mercy Chance)/Imp.)

Examination, November 2020

(2014 Admission Onwards)

MCA3E02 : PYTHON PROGRAMMING

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) Answer **any ten** questions from Section – A. Each question carries **three** marks.
2) Answer **all** questions from Section – B. Each question carries **ten** marks.

SECTION – A

Note : Answer **any ten** questions. Each question carries **three** marks :

1. What do you mean by Decorators? Explain with an example.
2. Explain about the operations on sequences.
3. Briefly explain operations on Dictionaries.
4. When is a nested condition used ? Discuss with an example.
5. Explain the working of python user defined functions along with its syntax.
6. What are the uses of python container ?
7. What is the use of apply () function ?
8. How the exceptions are handled in python program ?
9. Write a note on bisect module.
10. Compare and contrast match objects and managed objects.
11. Mention the applications of OpenGL in python program.
12. Write a short note on pygame.

(10×3=30)

P.T.O.



SECTION – B

Note : Answer **all** questions. **Each** question carries **ten** marks :

13. a) Explain the different types of operators and operations in python program with suitable examples. **10**
- OR
- b) i) What is the difference between tuples and lists in Python program ? Explain. **5**
ii) What is the purpose of pass statement in Python program ? Explain. **5**
14. a) i) What are the applications of lambda functions ? Explain. **5**
ii) Explain about tuning in Python program. **5**
- OR
- b) Explain operator overloading in python programming with suitable applications. **10**
15. a) Define socket. Explain how socket connection is established using python with the help of a diagram and program. **10**
- OR
- b) i) Briefly explain various modes for opening a file in python program. **5**
ii) Explain in detail about the operating system services in python program. **5**
16. a) Explain in detail about the Text Widget in GUI application. **10**
- OR
- b) Explain designing user interfaces and an implementation of dialogs using Qt designer. **10**
17. a) Define matrix. Explain the following matrix operations in python.
i) Scale matrix
ii) Rotation matrix
iii) Matrix multiplication. **10**
- OR
- b) Explain exploring event of third dimension in python with suitable examples. **10**
(5×10=50)