

# UGP-301

## B.C.A. (Part-II) Examination, 2021

### PYTHON

#### Paper - BCA 206 (A)

Time : 1½ Hours ]

[ Maximum Marks

#### Section-A

(Marks : 2 × 10 =

Instruction :- Answer all *ten* questions (Answer limit 50 words). Each question carries 2 marks.

(खण्ड-अ)

(अंक : 2 × 10 =

Instruction :- सभी दस प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 50 शब्द)। प्रत्येक प्रश्न 2 अंक का है।

#### Section-B

(Marks : 4 × 5 =

Instruction :- Answer all *five* questions. Each question has internal choice (Answer limit 200 words). Each question carries 4 marks.

(खण्ड-ब)

(अंक : 4 × 5 =

Instruction :- सभी पाँच प्रश्नों के उत्तर दीजिए। प्रत्येक प्रश्न में विकल्प का चयन कीजिए (उत्तर-सीमा 200 शब्द)। प्रत्येक प्रश्न 4 अंक का है।

#### Section-C

(Marks : 10 × 3 =

Instruction :- Answer any *three* questions out of five (Answer limit 500 words). Each question carries 10 marks.

(खण्ड-स)

(अंक : 10 × 3 =

Instruction :- पाँच में से किन्हीं तीन प्रश्नों के उत्तर दीजिए (उत्तर-सीमा 500 शब्द)। प्रत्येक प्रश्न 10 अंक

Attempt all *ten* questions. Answer should not exceed **50** words in each question.

- (i) What is the difference between a keyword and an identifier ?
- (ii) What are literals in Python ? How many literals are allowed in Python ?
- (iii) Explain 'PUSH' in STACK.
- (iv) Write a Python script to read an integer  $> 1000$  and reverse the number.
- (v) In which cases, the else clause of a loop does not get executed ?
- (vi) What is a String Slice ? How is it useful ?
- (vii) How are lists different from strings when both are sequences ?
- (viii) What is the difference between Formal Parameters and Actual Parameters ?  
What are their alternative names ?
- (ix) Explain exit ( ) function in Python with example.
- (x) What is Tuple ?

### **Section-B**

*e* :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words).

Explain the use of the Pass Statement. Illustrate it with an example.

*Or*

Write a Python program to print fibonacci series up to  $n$  times.

What is an ATOM ? What is an expression ? What is the difference between implicit type conversion and explicit type conversion ?

*Or*

Write short notes on the following :

- (i) List Manipulation

*Or*

Differentiate break and continue with suitable example.

How Python programming language is more useful over other programming language ? Discuss its advantages.

*Or*

Explain conditional statements in Python.

What are the Identifiers ? How to write the identifier in Python.

*Or*

Explain Python Interpreter and how to use Python as calculator.

### **Section–C**

*te* :- Answer any *three* questions out of five (Answer limit **500** words).

What are the differences between Stack and Queues ? Why STACK is called a LIFO Data Structure explain how, PUSH and pop operations are implemented on a STACK ?

What is String ? How to perform String Slice, String Comparison, String Traversal ?

Explain the over view of packages :

- (i) Numpy
- (ii) Matplotlib
- (iii) Networkx

Explain the operators in Python and also discuss their associativity and precedence with example.

How are classes and objects different from one another ? Why are classes termed as user defined function ? And also explain the role of `-init-()`, `-del-()`, `-str-()`