ଓଡ଼ିଶା ରାଜ୍ୟ ମୁକ୍ତ ବିଶ୍ୱବିଦ୍ୟାଳୟ, ସମ୍ବଲପୁର, ଓଡ଼ିଶା
Odisha State Open University, Sambalpur, Odisha
Established by an Act of Government of Odisha.

ASSIGNMENTS

CSP-45, 46 & 47
CSPL- 45, 46 & 47

(Theory & Practical)

SESSION: 2019-20

P.G DIPLOMA IN COMPUTER APPLICATIONS

(3rd Semester)

Please read the instructions carefully before attempting assignment questions.

INSTRUCTIONS FOR DOING ASSIGNMENTS

Dear Learner,

You are required to submit one assignment per course within the stipulated time in order to become eligible to appear in the term-end examination. The assignments will be evaluated by the counsellors at your Study Centre. Please submit your assignment solutions to the Coordinator of your Study Center.

Purpose of Assignments:

1.   Assignments are part of the continuous evaluation process in Open and Distance Learning (ODL) system. Due weightage is given to the marks/grades you obtain in assignments. This will help you for better performance in the term-end examination. If you secure good grades/marks in assignments, your overall performance will improve.

2.   Assignments are also a part of the teaching-learning process in the ODL system. Your assignment, after evaluation, will be returned back to you with specific and general comments by the evaluator. This will help you to know your strength as well as your weakness. Thus, it will establish two-way communication between learner and evaluator.

How to Write Assignments:

Please read the instructions for writing the response of an assignment before you start writing your answer.

1. Write your name, programme code, the course title, enrolment no. and study centre name with code in the top sheet of the assignment answer booklet as per the format given below.

    PROGRAMME TITLE: ....**ENROLMENT No.:** …………………

    NAME:……………………………………………………………………….......

    ADDRESS:……………………………………………………………………….

    COURSECODE…………**COURSETITLE:**………………………………………….

    ASSIGNMENT CODE:………………. **SIGNATURE:**…………………………….

    STUDY CENTRE: ....**DATE:** ……………………………….

2. Before you attempt the assignments, please go through the course materials carefully, understand the same and write answers in your own language and style.

3. **Write the answers in your own handwriting.** Give sufficient margin in the left side of each page so that the evaluator will give comments on each paragraph/page.

4. Your handwriting should be neat and readable.

Weightage for each Assignments:

1. Each Theory Assignment will carry 15% weightage and each Practical Assignment will carry 10% weightage and term-end examination will carry 75% weightage.

2. Each assignment will be of 100 marks. But it will carry 25% weightage.

3. You have to score minimum pass mark i.e. 40% in each assignment. In case you do not submit the assignment or get fail mark in the assignment you have to re-submit in the next year.

SUBMISSION DATES FOR ASSIGNMENTS

Sl. No.	Course Code	Name of the Course	Date of Submission	Day (As per Calendar)
		Theory		
1	CSP-45	Programming in Java	24th May 2020	Sunday
2	CSP-46	Introduction to Android Programming & Python	24th May 2020	Sunday
3	CSP-47	Introduction to Multimedia & Photoshop	24th May 2020	Sunday
		Practical		
4	CSPL-45	Programming in Java Lab	24th May 2020	Sunday
5	CSPL-46	Introduction to Android Programming & Python Lab	24th May 2020	Sunday
6	CSPL-47	Introduction to Multimedia & Photoshop Lab	24th May 2020	Sunday

ASSIGNMENTS
Programming in Java (CSP-45)
(Theory)

Full Mark – 100

GROUP-'A'

Q. No. 1 Answer all the question each in one word.   **Mark: 1 X 10 = 10**

a) Java Supports Multiple Inheritance. **(True/False)**
b) The Java interpreter is used for the execution of the source code. **(True/False)**
c) What does JVM Stand for?
d) Which method is used to change the name of a thread?
e) The java program is enclosed in a class definition. **(True/False)**
f) What is the use of charAt() function in java?
g) init() function is used to begin a program thread. **(True/False)**
h) What stop() function will do in a thread program?
i) What is the return type of main() method?
j) Which method waits for a thread to die?

Group 'B'

Q. No. 2 Short Answer Type Question (Word Limit: 100 Words)   **Mark: 5 × 4= 20**
a) What are the OOPs concept that supported by java?
b) Why java is platform-independent?
c) Explain about Break & Continue statement with example.
d) Write a Java Program to get Input from User using Scanner class.

Group 'C'

Q. No. 3   Medium Answer Type Question (Word Limit: 200 Words)   **Mark: 10 × 4= 40**
a) Difference between Application and Applet program.
b) Notes on Function Overloading concept with an example.
c) Write a java program to check whether a number is a palindrome or not using keyboard input program.
d) What is Package in java? Write a program using the user-defined package.

Group 'D'

Q. No. 4 Long Answer Type Question (Word Limit: 300 Words)   **Mark: 15 × 2= 30**
a) Explain the feature of Polymorphism. Describe various types of polymorphism.
b) Give a brief description of the applet life cycle with a suitable example.

ASSIGNMENTS
(Theory)
Introduction to Android Programming & Python (CSP-46)

Full Mark – 100

GROUP-'A'

Q. No. 1 Answer All the question in one word.   **Mark: 1 × 10= 10**

- a) Python is a high-level language (True/False).
- b) What was the first commercial version of Android?
- c) iOS is a Mobile Operating System (True/False).
- d) A python line comment begins with _____.
     i) //   ii) /*   iii) #   iv) $$
- f) Name any two Debugging Tools used in Android Framework.
- g) Are *nested if-else* are allowed in Python (Yes/No)?
- h) To start python from the command prompt _____ command is used.
- i) Which one of the following is not a python's predefine datatype?
     i) list   ii) dictionary   iii) tuple   iv) class
- j) IDLE Stands for?

Group 'B'

Q. No. 2 (Word Limit: 100 Words)   **Mark: 5 × 4= 20**

- a) What is the role of Python in Mobile Application? Explain.
- b) Name 31 keywords in Python.
- c) What is Android? Explain.
- d)   Explain the role of R.java file in Android.

Group 'C'

Q. No. 3   (Word Limit: 200 Words)   **Mark: 10 × 4= 40**

- a) Explain Android Architecture in details.
- b) Implement *for* loop in python with an example.
- c) What are the different Android platform versions and their specific features? Explain.
- d) Explain the role of AndroidManifest.xml file in an Android application.

Group 'D'

Q. No. 4 (Word Limit: 300 Words)   **Mark: 15 × 2= 30**
- **a)** Creating a new Android project in Android Studio and print "OSOU"
- b) What is an Activity in Android? Explain Activity Lifecycle in details.

ASSIGNMENTS
Introduction to Multimedia & Photoshop (CSP-47)
(Theory)

Full Mark – 100

GROUP-'A'

Q. No. 1 Answer All the question each in one word.   **Mark: 1 × 10= 10**

a) 1 Gigabyte =_____ Megabytes.
b) What does ISDN stand for?
c) RAM is a volatile memory. **(True/False)**
d) What is the pixel size of NTSE format?
e) *Krita* is a commercial software use for _____.
f) *Sumopaint* is a Raster based image editing software. **(True/False)**
g) The number of square dots i.e. pixels used on the computer screen is called_____.
h) Write the full form of CMYK.
i) *illustrator* is used for creating cartoon characters. **(True/False)**
j) Flat-Bed Scanner is an input device. **(True/False)**

Group 'B'

Q. No. 2 (Word Limit: 100 Words)   **Mark: 5 × 4= 20**

a) Write five Distributions of LINUX Operating System?
b) List the types of a communication network that are used to provide multimedia communication services.
c) What is an input device? List any four input devices.
d) Explain the three major steps involve in the process of animation.

Group 'C'

Q. No. 3   (Word Limit: 200 Words)   **Mark: 10 × 4= 40**

a) Describe the various video and audio formats.
b) Write the function of Network Layer of OSI Model.
c) What is the Spot Healing Brush Tool? How to use it? Explain.
d) Discuss the various tools in Adobe Photoshop?

Group 'D'

Q. No. 4 (Word Limit: 300 Words)   **Mark: 15 × 2= 30**

a) What is the different Television Video Output format? Explain in details.

b) What is a *Google group*? What are the advantages of *Google groups*? Explain with an example.

ASSIGNMENTS
(PRACTICAL)

ASSIGNMENTS
Programming in Java Lab (CSPL-45)
(Practical)

Full Marks: - 100

Answer all the question (each question carries 20 marks)

1. Explain JVM architecture in details.
2. Write a java applet program to display Fibonacci series of first 10 terms inside a label.
3. Write a java program to design a GUI based calculator application which performs addition, subtraction, multiplication, division operation on integers.
4. Develop a Library Interface which has drawbook(), returnbook()(with fine), checkstatus() and reservebook methods. All the methods are tagged with public in the following ways:
    a) Using drawbook() – get the required book based on the title.
    b) Using checkstatus() – user book returned date details.
    c) c) Using with fine() – Whether failed to return the book within a time period charge – Rs 5/day.
    d) Using reserve book() – block or reserve particular book for their account.
5. Write a program to perform the following operations on an array, using **generic classes**:
    a) Add an element in the beginning.
    b) Delete an element from a given position.

ASSIGNMENTS
Introduction to Android Programming & Python Lab (CSPL-46)
(Practical)

Full Marks: - 100

Answer all the question (each question carries 20 marks)

1. Enlist the different features of the Android Operating System.

2. Create an android application to do the addition of two numerical digits (XML file and java class only).

3. Write a Python program to display odd numbers between 1 to 30.

4. Write a Python program to check whether a year is a leap year or not.

5. Write a Python program to make a calculator that can add, subtract, multiply and divide using functions.

ASSIGNMENTS
Introduction to Multimedia & Photoshop Lab (CSPL-47)
(Practical)

Full Marks: - 100

Answer all the question (each question carries 20 marks)

1. Design a *visiting card* for any company utilizing your creativity and desktop publishing skills.

2. Make a PowerPoint presentation to describe "OSOU" (minimum 5 slides) using animation and special effect.

3. Show the application of following options in **selection tools** in Adobe Photoshop:- (Move Tool, Marquee Tools, Lasso Tools, Quick Selection Tool, Magic Wand Tool)

4. Write down the stepwise procedure to create a **YouTube** account and also show how videos are uploaded in **YouTube** account.

5. Write down the steps to create a pattern in Photoshop