



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

ASSIGNMENTS

CSP- 15, 16 & 17

(Theory & Practical)

SESSION: 2019-20

Post Graduate Diploma in Cyber Security (PGDCS)

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 counselors 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 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 a 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, course title, enrolment no. and study center name with code in the top sheet of the assignment answer booklet as per the format given below.

PROGRAMME TITLE:**ENROLMENT No.:**

NAME:.....

ADDRESS:.....

COURSE CODE:.....**COURSE TITLE:**.....

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 assignment or get fail mark in assignment you have to re-submit in the next year.

SUBMISSION DATES FOR ASSIGNMENTS

July Session

Sl. No.	Course Code	Name of the Course	Last Date of Submission	Day (As per Calendar)
Theory				
1	CSP-15	Web Technology	20th October 2019	Sunday
2	CSP-16	White hat Hacking	20th October 2019	Sunday
3	CSP-17	Security Analysis & Reporting	20th October 2019	Sunday
Practical				
4	CSPL-15	Web Technology Lab	20th October 2019	Sunday
5	CSPL-16	White hat Hacking Lab	20th October 2019	Sunday
6	CSPL-17	Security Analysis & Reporting Lab	20th October 2019	Sunday

ASSIGNMENTS

Web Technology (CSP-15)

(Theory)

Full Mark – 100

GROUP- 'A'

Q. No. 1 Answer all the questions, each within one word or one sentences Marks: 1 × 10= 10

- a) What is CSS? Why it is used for?
- b) What are Tags?
- c) How many types of heading does an HTML contain?
- d) Which tag is used for horizontal row in HTML?
- e) What are the values for the target tag in the form tag?
- f) Name three ways of inserting a style sheet.
- g) Write the HEX value of Cyan color.
- h) Define Client and Server.
- i) What is the difference between WWW and internet?
- j) What is the difference between HTML elements and tags?

Group 'B'

Q. No 2. Short answer-type Questions (Word Limit: 100 Words) Marks: 5 X 4 = 20

- a) Write and explain the Structure of HTML Document.
- b) What is CSS? Write about its advantages.
- c) How to create a nested webpage in HTML?
- d) What is the use of a span tag? Give one example.

Group 'C'

Q. No 3. Medium answer-type Questions (Word Limit: 200 Words) Marks: 10 X 4 = 40

- a) Write the steps to Develop a Website.
- b) Differentiate between HTML and XHTML.
- c) What are the different new form element types in HTML 5? Explain with example.
- d) What is JavaScript? List some features, Advantage and Disadvantage of JavaScript.

Group 'D'

Q. No 4. Long answer-type Questions (Word Limit: 300 Words) Marks: 15 X 2 = 30

- a) Write an HTML code and explain to design a registration form with field Name, Father Name, Mother Name, University Name, Age, Qualification, Address, Gender, Technical skills and Comment.
- b) What are the JavaScript data types? Discuss in detail.

ASSIGNMENTS

White Hat Hacking (CSP-16)

(Theory)

Full Mark – 100

GROUP- 'A'

Q. No. 1 Answer all the questions, each within one word or one sentences **Marks: 1 × 10= 10**

- a) What is White Hat Hacking.
- b) How Back hat hackers are different from White Hat Hacker?
- c) List any four common types of cybercrime.
- d) What is the use of HYDRA in Hacking?
- e) What is Spyware?
- f) What is Steganography?
- g) What Session Hijacking?
- h) What is a Bot?
- i) What is Honeypots in hacking?
- j) What are the different Phases involved in hacking?

Group 'B'

Q. No 2. Short answer-type Questions (Word Limit: 100 Words) **Marks: 5 X 4 = 20**

- a) Write about MAC flooding attack?
- b) What are the foot printing threats?
- c) Differentiate between Hacking Versus Cracking.
- d) What is PowerPoint and its uses?

Group 'C'

Q. No 3. Medium answer-type Questions (Word Limit: 200 Words) **Marks: 10 X 4 = 40**

- a) Explain different Types of Session Hijacking.
- b) What is Social Engineering? Explain different types of Social Engineering.
- c) Notes on Phishing, Skimming.
- d) What is SQL Injection? How it is used for Web Hacking?

Group 'D'

Q. No 4. Long answer-type Questions (Word Limit: 300 Words) **Marks: 15 X 2 = 30**

- a) What is Ethical Hacking? Write about Advantages and Disadvantages of Ethical Hacking.
- b) What is a Wireless Sniffer? Discuss different modes of wireless sniffing. How to Prevent Wireless Sniffer Attacks.

ASSIGNMENTS**Security Analysis & Reporting (CSP-17)**
(Theory)**Full Mark – 100****GROUP- 'A'****Q. No. 1** Answer all the questions, each within one word or one sentences **Marks: 1 × 10= 10**

- a) What is Protocol Analysis?
- b) What is Cloud Computing?
- c) The packet-sniffing process involves a cooperative effort between _____.
- d) What is 4-way Handshake?
- e) What is Wi-Fi Chalking?
- f) DHCP Stands for.
- g) What is Phone Phishing?
- h) What is Web Spoofing?
- i) What is Denial of Service?
- j) Reverse social engineering involves three parts. What are they?

Group 'B'**Q. No 2. Short answer-type Questions (Word Limit: 100 Words)** **Marks: 5 X 4 = 20**

- a) How Packet Sniffers Work?
- b) What is Self-Configuring Network Monitor?
- c) Describe the process of data encapsulation.
- d) Describe IPS Approaches.

Group 'C'**Q. No 3. Medium answer-type Questions (Word Limit: 200 Words)** **Marks: 10 X 4 = 40**

- a) Explain Seven Principles of Network Security Analysis Strategy.
- b) What is the Monitoring and Analysis Techniques? Explain.
- c) How to Break WPA Encryption? Explain.
- d) Explain different tools for Malware Analysis.

Group 'D'**Q. No 4. Long answer-type Questions (Word Limit: 300 Words)** **Marks: 15 X 2 = 30**

- a) Explain with diagram different types of Topology in Networking.
- b) Notes on WEP, WPA and WPA2 and GPS Mapping.

ASSIGNMENTS

Web Technology Lab (CSPL-15)

(Practical)

Full Mark – 25

Answer All the Questions (each question carries 05 marks)

1. Write a program to design following using html, css and javascript. When you press the Hide Button it will hide the red color text.

I am a headline made with HTML

And I am a simple text paragraph. The color of this text is styled with CSS. Click the button below to remove me through the power JavaScript.

Hide the text above

2. Write a html program to design the following table

1			3
1	2		
4	5	6	
7	8	9	
	10	11	
	12	13	
14			

3. Write a html program to play a video.
4. Write a html program to design a registration form.
5. Write a html program to show OSOU website in a webpage using iframe.

ASSIGNMENTS

White Hat Hacking Lab (CSPL-16)

(Practical)

Full Mark – 25

Answer All the Questions (each question carries 05 marks)

1. Write a note on Nmap and Metasploit.
2. Write the Steps how to get detailed information about a domain name information including its owner, its registrar, date of registration, expiry, name server, owner's contact information, etc.
3. What is www.archive.org? What is the importance of it. Write the steps of its use.
4. What is Fingerprinting? What are its types. Write the basic steps of Fingerprinting.
5. Notes on TCP/IP Hijacking and SQL Injection.

ASSIGNMENTS

Security Analysis & Reporting Lab (CSPL-17) (Practical)

Full Mark – 25

Answer All the Questions (each question carries 05 marks)

1. Write the steps for installing Wireshark in windows.
2. Discuss about features of Wireshark.
3. What do you mean by Wireless Hacking Methodology? Explain.
4. Discuss security packet analysis & reporting techniques.
5. Write how to Identify Open and Closed Ports.