

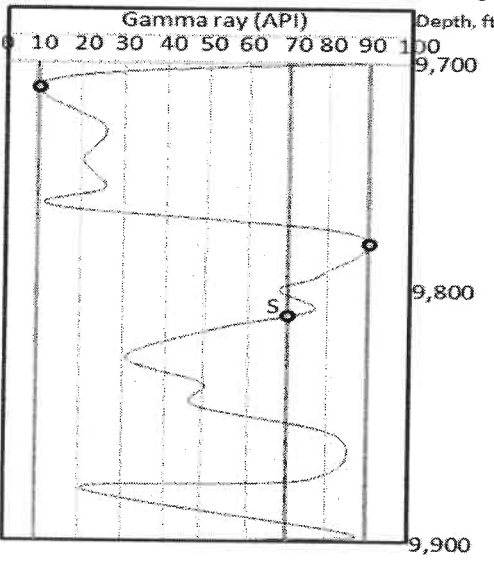
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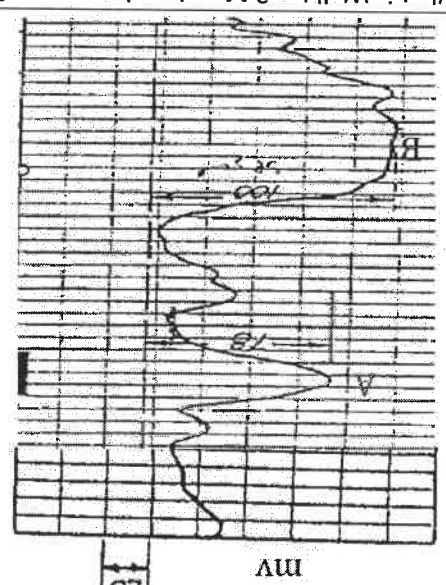
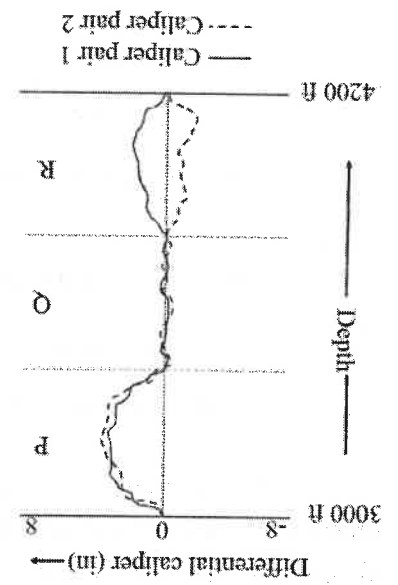
PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech Mid Semester Exam

Semester: 6th
Subject Code: 203105217
Subject Name: Web Application Security

Date: 29/01/2024
Time: (1hr: 30min)
Total Marks: 40

Sr. No.		Marks
Q.1	(A) Five One line Questions 1. What is the work of "Netcraft"? 2. What is HTTP Client-server? 3. Define: HTTP Response 4. What do you mean by Second order sql injection? 5. Nmap command for version scan.	05
	(B) Five Fill in the blanks 1. HTTPS is stands for _____. 2. _____ is the act of gathering different kinds of information against the targeted victim or system. 3. Fast scan in nmap scans ___ ports. 4. URL is stands for _____. 5. _____ is the famous tools that listen to network traffic and act as network analyzers.	05
Q.2	Attempt any four(Short Questions) (1) Explain the following: A) Footprinting B) Scanning C) Enumeration (2) Describe Cookies and Sessions. (3) Explain Authentication bypass vulnerability with example. (4) Explain NMAP Scanning Command. (5) What is Information Gathering?	12
Q.3	Attempt any two questions (1) Discuss Google Hacking Database (GHDB) in brief. (2) Differentiates HTTP and HTTPS protocols. (3) Explain Xpath Injection.	08
Q.4	(A) Explain mitigation strategies for SQL Injection. (B) List and explain types of SQL Injection.	05 05
	OR	
	(B) Briefly describe SQLMAP tool .	05

Q.4	(A) What is Gamma Ray Log? State at least 5 applications of Gamma Ray Log?	05
	<p>(B) Using the gamma ray log given in the figure, the shaliness index for point S is _____%.</p> 	05
OR		
	<p>(B) Calculate the Volume of shale (in %age-upto one decimals) when a SP log is run through a open hole passed a thick shale zone of -10mv sandwiched between a pure sand bed of -40mV. The SP log is meant to Vsh for a zone where the log reading for the zone is -25mV.</p> <p>Use the formula</p> $V_{sh} = \frac{SP_{sand} - SP_{log}}{SP_{sand} - SP_{shale}}$	05

	<p>(2) What is Well Log? Mention the name of different types of lithology Logs and Porosity Logs</p> <p>(3) What are the different test for Indication of Hydrocarbons?</p> <p>(4) An oil well is drilled using an 8.5-inch drill bit at a penetration rate of 30ft/hr. The rotary speed is 20rpm and the weight on the bit is 3500lbs. The value of the 'd' exponent for the drilled section is _____ (rounded off to two decimal places).</p> <p>(5) A formation is 500ft of which 200ft is of clean sand showing SP value of -82mV and below 300ft is recorded as -25mV. Calculate the volume of shale in the below 300ft zone.</p> <p>Attempt any two questions</p> <p>Q.3</p> 	
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<p>08</p>	<p>(1) What is SP Log? What is the Principles of SP log? State the factors affecting the SP Log response?</p>	
	<p>(2) What is Calliper Log? Mention atleast 2 applications of Calliper Log?</p>  <p>(3) Write a short Note on Electrochemical potential?</p> <p>Describe the Interpretation Part of Zone P, Q and R</p>	