



DELHI PUBLIC SCHOOL (JOKA) SOUTH KOLKATA

COMPUTER SYLLABUS [2021-2022]

CLASS – XII INFORMATICS PRACTICES (065)

<p style="text-align: center;">PERIODIC TEST-I</p>	<p>Theory:</p> <ul style="list-style-type: none">• Unit 2: Database Query using SQL <p>Group by , Order by , having clause</p> <p>Math functions:POWER (), ROUND (), MOD ().</p> <p>Text functions:UCASE ()/UPPER (), LCASE ()/LOWER (), MID ()/ SUBSTRING ()/SUBSTR (), LENGTH (), LEFT (), RIGHT (),INSTR (), LTRIM (), RTRIM (), TRIM ().</p> <p>Date Functions:NOW (), DATE (), MONTH (), MONTHNAME (), YEAR (), DAY (), DAYNAME ().</p> <p>Aggregate Functions:MAX (), MIN (), AVG (), SUM (), COUNT (); COUNT (*).</p>																		
<p style="text-align: center;">MIDTERM EXAMINATION</p>	<p>Unit1: Data Handling using Pandas and Data Visualization</p> <ul style="list-style-type: none">• Python Pandas• Graph using Pyplot• CSV file operation <ul style="list-style-type: none">• Querying and manipulating data usingGroup by, Having, Order by. <p>Practical:</p> <table border="1" data-bbox="467 1697 1452 2092"><thead><tr><th>S L</th><th>Unit Name</th><th>Marks</th></tr></thead><tbody><tr><td>1</td><td>Programs using Pandas and Matplotlib</td><td>08</td></tr><tr><td>2</td><td>SQL Queries</td><td>07</td></tr><tr><td>3</td><td>Practical file (minimum of 15 programs based on Pandas, 4 based on Matplotlib and 15 SQL queries must be included)</td><td>10</td></tr><tr><td>4</td><td>Viva-Voce</td><td>05</td></tr><tr><td></td><td>TOTAL</td><td>30</td></tr></tbody></table>	S L	Unit Name	Marks	1	Programs using Pandas and Matplotlib	08	2	SQL Queries	07	3	Practical file (minimum of 15 programs based on Pandas, 4 based on Matplotlib and 15 SQL queries must be included)	10	4	Viva-Voce	05		TOTAL	30
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PERIODIC TEST-II	<p>Unit3:Introduction to Computer Networks</p> <ul style="list-style-type: none"> • Introduction to networks, Types of network: LAN, MAN, WAN. • Network Devices: modem, hub, switch, repeater, router, gateway • Network Topologies: Star, Bus, Tree, Mesh. • Introduction to Internet, URL, WWW, and its applications- Web, email, Chat, VoIP. • Website: Introduction, difference between a website and webpage, static vs dynamic web page, web server and hosting of a website. • Web Browsers: Introduction, commonly used browsers, browser settings, add-ons and plug-ins, cookies. <p>Unit4:Societal Impacts</p> <ul style="list-style-type: none"> • Digital footprint, net and communication etiquettes, data protection, intellectual property rights (IPR), plagiarism, licensing and copyright, free and open source software (FOSS), cybercrime and cyber laws, hacking, phishing, cyber bullying, overview of Indian IT Act. • E-waste: hazards and management. • Awareness about health concerns related to the usage of technology. 																					
PRACTICE EXAMINATION	<p>Theory:</p> <ul style="list-style-type: none"> • Syllabus of MIDTERM • Syllabus of PERIODIC TEST-I and II <p>Practical</p> <ul style="list-style-type: none"> • Practical Marks Distribution <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">S N o</th> <th style="text-align: center;">Unit Name</th> <th style="text-align: center;">Marks</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Programs using Pandas and Matplotlib</td> <td style="text-align: center;">08</td> </tr> <tr> <td style="text-align: center;">2</td> <td>SQL Queries</td> <td style="text-align: center;">07</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Practical file (minimum of 15 programs based on Pandas, 4 based on Matplotlib and 15 SQL queries must be included)</td> <td style="text-align: center;">05</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Project Work (using concepts learned in class XI and XII)</td> <td style="text-align: center;">05</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Viva-Voce</td> <td style="text-align: center;">05</td> </tr> <tr> <td></td> <td>TOTAL</td> <td style="text-align: center;">30</td> </tr> </tbody> </table>	S N o	Unit Name	Marks	1	Programs using Pandas and Matplotlib	08	2	SQL Queries	07	3	Practical file (minimum of 15 programs based on Pandas, 4 based on Matplotlib and 15 SQL queries must be included)	05	4	Project Work (using concepts learned in class XI and XII)	05	5	Viva-Voce	05		TOTAL	30
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