



VIT

Vellore Institute of Technology

ITEM ID:

SC07162

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING COURSE CREDIT ASSESSMENT TEST - I SEMESTER: 2014-2015

	<p>(i) A function $g(x)$ is defined as follows: $g(x) = \begin{cases} 1 & \text{if } x \text{ is even} \\ 0 & \text{if } x \text{ is odd} \end{cases}$</p> <p>(ii) A function $f(x)$ is defined as follows: $f(x) = \begin{cases} 1 & \text{if } x \text{ is even} \\ 0 & \text{if } x \text{ is odd} \end{cases}$</p>																																				
1	<p>(i) Write an algorithm to compute the value of $f(x)$ for a given x. Also write the corresponding pseudocode for the same.</p> <p>(ii) Draw the GSN for the above algorithm and write the pseudocode for the same. Also write the corresponding flowchart for the same.</p>	1																																			
2	<p>(i) Write an algorithm to compute the value of $f(x)$ for a given x. Also write the corresponding pseudocode for the same. Also write the corresponding flowchart for the same.</p> <table border="1"> <thead> <tr> <th>Input</th><th>Algorithm</th><th>Output</th></tr> </thead> <tbody> <tr> <td>1</td><td>1</td><td>1</td></tr> <tr> <td>2</td><td>1</td><td>1</td></tr> <tr> <td>3</td><td>1</td><td>1</td></tr> <tr> <td>4</td><td>1</td><td>1</td></tr> <tr> <td>5</td><td>1</td><td>1</td></tr> <tr> <td>6</td><td>1</td><td>1</td></tr> <tr> <td>7</td><td>1</td><td>1</td></tr> <tr> <td>8</td><td>1</td><td>1</td></tr> <tr> <td>9</td><td>1</td><td>1</td></tr> <tr> <td>10</td><td>1</td><td>1</td></tr> </tbody> </table> <p>(ii) Write an algorithm to compute the value of $f(x)$ for a given x. Also write the corresponding pseudocode for the same. Also write the corresponding flowchart for the same.</p>	Input	Algorithm	Output	1	1	1	2	1	1	3	1	1	4	1	1	5	1	1	6	1	1	7	1	1	8	1	1	9	1	1	10	1	1	1	1	1
Input	Algorithm	Output																																			
1	1	1																																			
2	1	1																																			
3	1	1																																			
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0-44-10400-9

101-701

Printed by the Science and Engineering
Council & NCS

HLSP:77L-1001-20000

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

0100-0000

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Electron spin

Generalized model

Keywords: child sexual abuse; disclosure; self-blame

Q. No.	Q. Answer	Mark
1	an ill-defined body of knowledge which has been the subject of inquiry and discussion for a long time, but which is far from being settled.	1
2	It is an ill-defined body of knowledge which has been the subject of inquiry and discussion for a long time, but which is far from being settled.	1
3	an ill-defined body of knowledge which has been the subject of inquiry and discussion for a long time, but which is far from being settled.	1
4	an ill-defined body of knowledge which has been the subject of inquiry and discussion for a long time, but which is far from being settled.	1
5	an ill-defined body of knowledge which has been the subject of inquiry and discussion for a long time, but which is far from being settled.	1
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8	an ill-defined body of knowledge which has been the subject of inquiry and discussion for a long time, but which is far from being settled.	1
9	an ill-defined body of knowledge which has been the subject of inquiry and discussion for a long time, but which is far from being settled.	1
10	an ill-defined body of knowledge which has been the subject of inquiry and discussion for a long time, but which is far from being settled.	1





VIT

Vellore Institute of Technology
Chennai - 600 127

REGNO:

SECT: A2

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
CONTINUOUS ASSIGNMENT TEST - I
WINTER SEMESTER 2024-2025

Apply Chi-square test to determine if the gender influences the product preference (contingency table) where $n = 100$ for a significance level of 5% and 1 degree of freedom.

5. Given below are the scores with 3 features, their mean values and the covariance matrix. Compute the first principal component and mention the direction.

Row no.	Feature 1 [80]	Feature 2 [60]	Feature 3 [50]
1	2	4	3
2	4	6	5
3	3	5	2
4	5	7	4

$$\mu = 3.5, \mu^2 = 4, \mu = 1.2$$

$$\text{Cov} = \begin{bmatrix} 3.5 & 4.33 & 1.25 \\ 4.33 & 7.33 & 3.5 \\ 1.25 & 3.5 & 0.83 \end{bmatrix}$$



VTU
VIRAJAPURA TECHNICAL UNIVERSITY

DEGREE PROGRAM

Semester

SCHOOL OF DISTANCE EDUCATION AND EXAMINATIONS
THE UNIVERSITY OF VIRAJAPURA
WINTER SEMESTER 2020-21

Engineering Branch & Major	BT 2001 BT
Proposed Elective and Minor	BT 2002 BT, BT 2003 BT
Course Number	BT 2001 BT, BT 2002 BT
Course Name	VIRAJAPURA UNIVERSITY
Year of Completion	2021
Batch Number	BT 2001 BT
Branch & Major	BT 2001 BT

Course Objectives

1. Understand the basic concepts of the course.
2. Apply the knowledge of the course in the practical work.

Sl. No.	Part A	Part B																																								
1	<table><tr><th>Sl. No.</th><th>Question</th><th>Answer</th><th>Mark</th></tr><tr><td>1</td><td>1.1</td><td>1.1</td><td>1.1</td></tr><tr><td>2</td><td>1.2</td><td>1.2</td><td>1.2</td></tr><tr><td>3</td><td>1.3</td><td>1.3</td><td>1.3</td></tr><tr><td>4</td><td>1.4</td><td>1.4</td><td>1.4</td></tr><tr><td>5</td><td>1.5</td><td>1.5</td><td>1.5</td></tr><tr><td>6</td><td>1.6</td><td>1.6</td><td>1.6</td></tr><tr><td>7</td><td>1.7</td><td>1.7</td><td>1.7</td></tr><tr><td>8</td><td>1.8</td><td>1.8</td><td>1.8</td></tr><tr><td>9</td><td>1.9</td><td>1.9</td><td>1.9</td></tr></table>	Sl. No.	Question	Answer	Mark	1	1.1	1.1	1.1	2	1.2	1.2	1.2	3	1.3	1.3	1.3	4	1.4	1.4	1.4	5	1.5	1.5	1.5	6	1.6	1.6	1.6	7	1.7	1.7	1.7	8	1.8	1.8	1.8	9	1.9	1.9	1.9	10
Sl. No.	Question	Answer	Mark																																							
1	1.1	1.1	1.1																																							
2	1.2	1.2	1.2																																							
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8	1.8	1.8	1.8																																							
9	1.9	1.9	1.9																																							
2	<p>2.1. The following are the questions asked in the examination. The student has to answer any two of them.</p> <p>2.2. The following are the questions asked in the examination. The student has to answer any two of them.</p> <p>2.3. The following are the questions asked in the examination. The student has to answer any two of them.</p> <p>2.4. The following are the questions asked in the examination. The student has to answer any two of them.</p> <p>2.5. The following are the questions asked in the examination. The student has to answer any two of them.</p> <p>2.6. The following are the questions asked in the examination. The student has to answer any two of them.</p> <p>2.7. The following are the questions asked in the examination. The student has to answer any two of them.</p> <p>2.8. The following are the questions asked in the examination. The student has to answer any two of them.</p> <p>2.9. The following are the questions asked in the examination. The student has to answer any two of them.</p> <p>2.10. The following are the questions asked in the examination. The student has to answer any two of them.</p>	10																																								

Q. No.	Question
1.	<p>Develop an audit trail model to be utilized across the following departmental support shops:</p>

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- [illegible]

[illegible]



VIT

Vellore Institute of Technology

REG NO: _____

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
 CONTINUOUS ASSESSMENT I (C-T-1)
 WINTER SEMESTER 2022-23

SIST: 02 / T00

Time: 1 hour

1	20	20
2	20	20
3	20	20

Q1. Implement the following algorithm using the flowchart. (10 marks)
 Print the square of each number from 1 to 10.

1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

Q2. Write the algorithm to calculate the sum of the first 10 natural numbers. (10 marks)



STUDYING AND READING: A READER'S GUIDE

© 2001 Blackwell Science Ltd, *Journal of Internal Medicine* 250: 399–406

CELESTIAL MECHANICS, 1915

10.02.11

Prerequisites: None & Beyond

M. J. Edwards, Cambridge Science and Technology Centre

Course Code and Course Name

PLSFMG, in Marine Corps

Family Members

Dr. E. H. Hill

CLUB VAMPERS

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Source of funding: none

011234

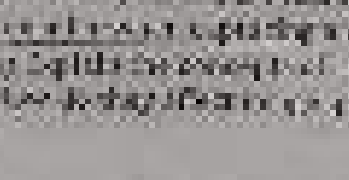

Call Details

150 mg/ml.

Mathematical Methods

Control Issues

- H-2^d MHC: 1-Transmembrane (T), short (chain) and (H) -invariant, 2- Invariant, 3- Antigen, 4- Antigen, 5- Antigen, 6- Antigen
- DCR: DCR is a class of antigen that is presented by the DCR (Dendritic Cell Receptor) and is involved in the regulation of the immune response.
- We have identified a number of genes that are involved in the regulation of the immune response.

Q. No.	Question	Answer	Mark																											
1	Draw the relationship between the rate of change of a function and the function's concavity. Use the graph below to describe what happens as x increases. (5 Points)		5																											
2	<p>Explain the concept of a function and its domain and range. (5 Points)</p> <p>Consider the following set of ordered pairs:</p> <table><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td>5</td><td>6</td><td>7</td><td>8</td></tr><tr><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>3</td><td>4</td><td>5</td><td>6</td></tr></table>	1	2	3	4	5	6	7	8	2	3	4	5	3	4	5	6	<p>A function is a set of ordered pairs where each input (x) has exactly one output (y). The domain is the set of all possible inputs, and the range is the set of all possible outputs.</p> <p>For the given set of ordered pairs, the domain is {1, 2, 3, 4, 5, 6, 7, 8} and the range is {2, 3, 4, 5, 6, 7, 8}.</p>	5											
1	2	3	4																											
5	6	7	8																											
2	3	4	5																											
3	4	5	6																											
3	<p>Graph the function $f(x) = x^2 - 4x + 4$ on the coordinate plane. (5 Points)</p> <p>Original map:</p> <table><tr><th>Gray</th><th>0</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th></tr><tr><th>Line</th><td>45</td><td>50</td><td>55</td><td>60</td><td>65</td><td>70</td><td>75</td><td>80</td></tr><tr><th>Price</th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Gray	0	1	2	3	4	5	6	7	Line	45	50	55	60	65	70	75	80	Price									<p>The function $f(x) = x^2 - 4x + 4$ is a parabola opening upwards with its vertex at (2, 0). The graph is shown on the coordinate plane below.</p> 	5
Gray	0	1	2	3	4	5	6	7																						
Line	45	50	55	60	65	70	75	80																						
Price																														
Multiple Choice: Transformation related to graphing the function		Answer																												

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
CONTINUOUS ASSESSMENT TEST - II
WINTER SEMESTER 2023-2024

SLT DE - 202

Programme Name & Branch : M.Tech & Computer Science and Engineering
Course Code and Course Name : MESC051 and Machine Vision
Faculty Name(s) : Dr. V. N. Balaji
Date Number(s) : VI2024230502175
Date of Examination : 19.01.2025
Exam Duration : 30 minutes
Maximum Marks: 50

Answer All Questions

- * MC - Max mark, CC - Conceptual mark, EL - Short Explanatory Text, I - Diagrams, E - Equations, A - Analysis, E - Evaluation - Graded
- * Q1 - Discuss the understanding of machine vision and its applications in various industries for the analysis.
- * Q2 - Explain the importance of machine vision in the manufacturing industry and its applications.

Q. No.	Question	M	E	I
1	Q1. Discuss the following: 20 marks and the marks are marked in the following table. (20 marks)	10	10	10
2	Q2. Explain the importance of machine vision in the manufacturing industry and its applications. (20 marks)	10	10	10

Problem:

1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5

If there is a row or a column with only one non-zero element, then it is called a **singleton**.

Find the minimum number of rows and columns to be removed from the matrix, such that no row or column is a singleton.

Example:

1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5

1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5

1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	4	5

The above matrix is a 5x5 matrix. The minimum number of rows and columns to be removed from the matrix, such that no row or column is a singleton, is 2.

Programme Name & Code:

R. Tiedt *University of Science and Engineering
UK & NCSS*

Online Sale and Purchase

WILSON ET AL. • Cytosolic Signaling

References

Experimental Design

David Smith 15

0120712284.COM

Unit 14 Examination

2018-2019

Fig. 2.1 *Diagram illustrating the relationship between the different components of the system.*

BRIEF COMMUNICATIONS

SUBMITTING AUTHOR'S ID

Abstract (continued)

■ Answer 21 (Continued)

Q. No.	Questions	Mark
1.	<p>These authentication records are coming into the system hourly.</p> <ul style="list-style-type: none"> Explain how these authentication records are stored into security hardware. Although a suspected cyber-attack, which these authentication played a major role. Suggest an improved authentication framework for this purpose. 	10
2.	<p>A company uses passwords of length L composed of uppercase, lowercase, numbers, and special characters. The total password character set is L. Develop a mathematical model to compute the entropy $H(X)$ of a password and analyze its strength for five different values of L and C. Suggest a procedure to convert a string password to a binary data. Generate with help of random distribution.</p>	10
3.	<p>a) A monitoring system in a large enterprise logs 1000000 security events per day. If 0.1% of these events are tagged as suspicious and 5% of the suspicious events are false positives, calculate:</p> <ul style="list-style-type: none"> The total number of suspicious events tagged per day. The number of events that are truly false positives (i.e., real suspicious events). 	10



VIT

Vellore Institute of Technology
SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
CONTINUOUS ASSESSMENT TEST II (B-Term)
WINTER SEMESTER 2024-2025

REGNO 24010150000

SLIDE III-001

<p>Discuss the role of cloud trading in modern threat management. Describe one key critical thinking technique and explain how they contribute to the identification and mitigation of threats.</p>	3
<p>In Discuss the role of anomaly detection and monitoring systems in security operations center (SOC) security. Compare and contrast intrusion detection systems (IDS) and anomaly detection systems, highlighting their contributions to the detection of unauthorized access.</p>	4
<p>a. An organization faces a vulnerability in its monitoring system with an initial exploitation probability of 20% and an estimated breach cost of \$100,000. After applying the patch, the exploitation probability drops to 5%.</p> <p>b. Calculate the expected risk (in dollars) before and after patching.</p> <p>c. Discuss the impact of risk and discuss the effectiveness of threat intelligence management.</p>	5
<p>Discuss the role of cyber security log in mitigating Distributed Denial of Service (DDoS) attacks. Illustrate with one suitable tool and explain how they help detect, track, and mitigate DDoS traffic. Provide a real-world example of an organization that effectively used such tools.</p>	10



VIT

SCHOOL OF ENGINEERING
 DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
 COURSE: POWER SYSTEMS (EE3001)
 SEMESTER: III

Page 12 of 12

Programme Name & Details	Course Code and Credit Status	Faculty Name(s)	Class Number(s)	Date of Coordination	Exam Duration	Maximum Marks	Obtained Marks
EE3001	3	Dr. Srinivasulu Reddy	EE3001	15/11/2023	3 hours	100	
Q. No.	Q. No.	Q. No.	Q. No.	Q. No.	Q. No.	Q. No.	Q. No.
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9
10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12
13	13	13	13	13	13	13	13
14	14	14	14	14	14	14	14
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19	19	19	19	19	19	19	19
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21	21	21	21	21	21	21	21
22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25
26	26	26	26	26	26	26	26
27	27	27	27	27	27	27	27
28	28	28	28	28	28	28	28
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30	30	30	30	30	30	30	30
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32	32	32	32	32	32	32	32
33	33	33	33	33	33	33	33
34	34	34	34	34	34	34	34
35	35	35	35	35	35	35	35
36	36	36	36	36	36	36	36
37	37	37	37	37	37	37	37
38	38	38	38	38	38	38	38
39	39	39	39	39	39	39	39
40	40	40	40	40	40	40	40
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42	42	42	42	42	42	42	42
43	43	43	43	43	43	43	43
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49	49	49	49	49	49	49	49
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70	70	70	70	70	70	70	70
71	71	71	71	71	71	71	71
72	72	72	72	72	72	72	72
73	73	73	73	73	73	73	73
74	74	74	74	74	74	74	74
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84	84	84	84	84	84	84	84
85	85	85	85	85	85	85	85
86	86	86	86	86	86	86	86
87	87	87	87	87	87	87	87
88	88	88	88	88	88	88	88
89	89	89	89	89	89	89	89
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94	94	94	94	94	94	94	94
95	95	95	95	95	95	95	95
96	96	96	96	96	96	96	96
97	97	97	97	97	97	97	97
98	98	98	98	98	98	98	98
99	99	99	99	99	99	99	99
100	100	100	100	100	100	100	100

Dr. Srinivasulu Reddy



MIT

SCHOOL OF COMPTON HALL, 77 MASSACHUSETTS AVENUE, CAMBRIDGE, MASSACHUSETTS 02139-4300
 PHONE: 617/253-3000 FAX: 617/253-3000

DATE: 12/12/12

James R. H. H. H.

1. In a market, the price of a good is determined by the interaction of supply and demand. What is the price of a good in a market?

James R. H. H. H.

2. What is the price of a good in a market? What is the price of a good in a market?

3. What is the price of a good in a market? What is the price of a good in a market?

4. What is the price of a good in a market? What is the price of a good in a market?

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8. What is the price of a good in a market? What is the price of a good in a market?

9. What is the price of a good in a market? What is the price of a good in a market?

10. What is the price of a good in a market? What is the price of a good in a market?

Prof. James Henry de Souza	Ph.D. Univ. of AP, 1970
Assoc. Prof. and Campus Vice	Ph.D. STANF - Michigan Learning
Charles Bonetto	Ph.D. Oxford Univ. of England
Chas. Munkford	Ph.D. Stanford Univ. of California
Prof. of Economics	Ph.D. Yale
Assoc. Professor	Ph.D. Stanford

Journal of Management Education

1. **CMC** – Two-personal computer-mediated communication and learning environment. Problems.
2. **ITC** – Multiple and images can have a broader knowledge for performance. Problems.

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

1. A linear regression model is used to predict student standardized test scores. Students log their education, lighting, and food consumption. Below are the training and validation errors at different stages of model building.

Stage	Training Error	Validation Error
1	1.10	0.90
2	0.80	0.70
3	0.50	0.50
4	0.20	0.50
5	0.10	0.50

a) Answer the Question 1 and Question 2 of the model and is the model exhibiting over fitting or under fitting? Justify your answer by comparing the trends in the training and validation error.

b) At which iteration, would you remove the model is better or over over fitting or under fitting? Justify your answer using the error values.

c) If you were to apply regularization at iteration 5, what would be the impact on the training and validation errors, and why?



VIT

Vellore Institute of Technology
Vellore, Tamil Nadu 690 019

REG. NO. _____

SCHOOL OF COMPUTER SCIENCE AND ENGINEERING
CONTINUOUS ASSESSMENT TEST - II
WINTER SEMESTER 2020-2021

SLOT: **A1**

I. Assume you are developing an abundance estimation system using modern learning techniques to identify animals based on field recordings or other bioacoustic features. The system includes a variety of features such as fundamental frequency, spectrogram, noise, temperature, humidity conditions, and background noise. Specifically, what learning algorithm would you recommend for training the system? Additionally, what performance metrics would you recommend for training and testing the system? Justify your choice of algorithm and metrics with your reasoning.

II. Assume you are provided with the following sample dataset:

Feature 1 (x1)	Feature 2 (x2)	Label (y)
1	3	1
4	5	1
1	2	0
2	7	0
3	6	1
4	7	1
1	1	0
4	2	1

Apply the Support Vector Machine (SVM) algorithm to analyze whether the given dataset is linearly separable. Additionally, generate a visualization to illustrate the separation, including the decision boundary and support vectors.

Roll No.	Roll No.	Roll No.	Roll No.
Roll No.	Roll No.	Roll No.	Roll No.
Roll No.	Roll No.	Roll No.	Roll No.
Roll No.	Roll No.	Roll No.	Roll No.

- Calculate the standard deviation for each variable. (10 marks)
- Based on standard deviation, which variable has the most variation? Justify your answer. (10 marks)
- How does the standard deviation relate to the mean and variance? (10 marks)

1. Consider a probability distribution where you are given a set of students and you want to predict whether each student will pass or fail. Compute the average rating for each student. Determine the final prediction based on the average rating method. If the average prediction is greater than or equal to 0.5, the final prediction is "pass". If the average prediction is less than 0.5, the final prediction is "fail".

Student ID	Math Grade (0-10)	Science Grade (0-10)	Average Grade (0-10)	Final Prediction (Pass/Fail)
1	0.5	0.8	0.7	"
2	1.5	0.4	0.9	"
3	1.9	0.6	1.25	"
4	1.4	0.5	1.5	"
5	1.1	0.3	1.15	"



VIT

Vellore Institute of Technology

School of Computer Science and Engineering

Winter Semester 2024-25

REPLAT II

SLTCEP1423111-112

Programme Name & Branch: M.Tech. AI Research

Course Name & Code: Computer Networks (MCN2001)

Exam Duration: 90 Min.

Maximum Marks: 80

Q. No.	Question	Max. Mark.	CO
1	<p>Make the routing table for R1, R2, R3, R4 and R5</p>	10	CO1
2	<p>Assume that data of 3000 bytes has to be sent from a sender A (192.168.64.1) is attached to Bharat's Network to the receiver B (200.1.2.1) is a part of XYZ network. The intermediate network between sender's network and receiver's network is FDDI. Router A and Router B connects sender and receiver network to the intermediate network. Trace and Sketch each IP's fragment (in hexadecimal) and assembly at Router A and Router B respectively. Assume the identification of IP's fragments in decimal is 65 and the upper layer protocol is UDP. Assume default values wherever necessary.</p>	10	CO2
3	<p>List the trans section to be performed in Link State Routing. Apply Dijkstra's algorithm for the given simple graph to find the shortest path tree and construct the routing table for that node A.</p>	10	CO3



40	With a central router, discuss how LANs are defined by these fundamental principles which differentiate them from other networks. Explain the architecture design and deployment models to help in choosing the correct design which is the packet format in TCP and how flow control is achieved in this phase. (10 marks)	10	CCP
50	Describe which the packet format in TCP and how flow control is achieved in this phase. (10 marks) TCP connection is transferring a file of 60,000 bytes. The first byte is numbered 10000. What are the sequence numbers for each segment if data is sent in 100 segments with the first four segments having length 1,000 bytes and the last two segments having a length 2,000 bytes? (10 marks)	20	CCP



MIT

Page 1

Department of Mechanical Engineering

15.081: Introduction to Solid Mechanics

Spring 2011

Problem Set 10
Due: Friday, May 13, 2011
Total Points: 100
This problem set contains 10 problems. Problems 1-5 are worth 10 points each, and problems 6-10 are worth 20 points each. The problems cover a range of topics in solid mechanics, including stress, strain, and the theory of elasticity. Some problems involve the derivation of equations, while others involve the application of concepts to specific physical situations. The problems are designed to test your understanding of the material covered in the course and your ability to apply it to new situations.

1. (10 points) Consider a rectangular block of material with dimensions a , b , and c along the x , y , and z axes, respectively. The block is subjected to a uniform stress σ acting in the x -direction. Determine the change in volume of the block.

2. (10 points) A cylindrical bar of length L and radius R is fixed at one end and free at the other. A torque T is applied at the free end. Determine the angle of twist of the bar.

3. (10 points) A rectangular block of material with dimensions a , b , and c along the x , y , and z axes, respectively, is subjected to a uniform stress σ acting in the x -direction. Determine the change in length of the block along the x -axis.

4. (10 points) A cylindrical bar of length L and radius R is fixed at one end and free at the other. A torque T is applied at the free end. Determine the maximum shear stress in the bar.

5. (10 points) A rectangular block of material with dimensions a , b , and c along the x , y , and z axes, respectively, is subjected to a uniform stress σ acting in the x -direction. Determine the change in length of the block along the y -axis.

6. (20 points) A cylindrical bar of length L and radius R is fixed at one end and free at the other. A torque T is applied at the free end. Determine the angle of twist of the bar, assuming that the bar is made of a material with a shear modulus G .

7. (20 points) A rectangular block of material with dimensions a , b , and c along the x , y , and z axes, respectively, is subjected to a uniform stress σ acting in the x -direction. Determine the change in length of the block along the z -axis.

8. (20 points) A cylindrical bar of length L and radius R is fixed at one end and free at the other. A torque T is applied at the free end. Determine the maximum shear stress in the bar, assuming that the bar is made of a material with a shear modulus G .

9. (20 points) A rectangular block of material with dimensions a , b , and c along the x , y , and z axes, respectively, is subjected to a uniform stress σ acting in the x -direction. Determine the change in length of the block along the x -axis, assuming that the block is made of a material with a Young's modulus E .

10. (20 points) A cylindrical bar of length L and radius R is fixed at one end and free at the other. A torque T is applied at the free end. Determine the angle of twist of the bar, assuming that the bar is made of a material with a shear modulus G .

1. The first step in the process of the cell cycle is the replication of DNA. This process occurs during the S phase of the cell cycle. The DNA molecule is duplicated, resulting in two identical DNA molecules. This process is essential for the cell to divide and produce two daughter cells.



2. The second step in the process of the cell cycle is the division of the cell. This process occurs during the M phase of the cell cycle. The cell divides into two daughter cells, each with its own set of chromosomes. This process is essential for the cell to grow and reproduce.
3. The third step in the process of the cell cycle is the growth of the cell. This process occurs during the G1 phase of the cell cycle. The cell grows in size and synthesizes new proteins and organelles. This process is essential for the cell to be able to divide and produce two daughter cells.
4. The fourth step in the process of the cell cycle is the replication of DNA. This process occurs during the S phase of the cell cycle. The DNA molecule is duplicated, resulting in two identical DNA molecules. This process is essential for the cell to divide and produce two daughter cells.
5. The fifth step in the process of the cell cycle is the division of the cell. This process occurs during the M phase of the cell cycle. The cell divides into two daughter cells, each with its own set of chromosomes. This process is essential for the cell to grow and reproduce.
6. The sixth step in the process of the cell cycle is the growth of the cell. This process occurs during the G1 phase of the cell cycle. The cell grows in size and synthesizes new proteins and organelles. This process is essential for the cell to be able to divide and produce two daughter cells.
7. The seventh step in the process of the cell cycle is the replication of DNA. This process occurs during the S phase of the cell cycle. The DNA molecule is duplicated, resulting in two identical DNA molecules. This process is essential for the cell to divide and produce two daughter cells.
8. The eighth step in the process of the cell cycle is the division of the cell. This process occurs during the M phase of the cell cycle. The cell divides into two daughter cells, each with its own set of chromosomes. This process is essential for the cell to grow and reproduce.
9. The ninth step in the process of the cell cycle is the growth of the cell. This process occurs during the G1 phase of the cell cycle. The cell grows in size and synthesizes new proteins and organelles. This process is essential for the cell to be able to divide and produce two daughter cells.
10. The tenth step in the process of the cell cycle is the replication of DNA. This process occurs during the S phase of the cell cycle. The DNA molecule is duplicated, resulting in two identical DNA molecules. This process is essential for the cell to divide and produce two daughter cells.





VIT

Vellore Institute of Technology
 Vellore - 620 017
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 VIT-VELORE

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Principal	Dr. K. Jagan Mohan Reddy
Deputy Principal	Dr. K. Jagan Mohan Reddy
Dean	Dr. K. Jagan Mohan Reddy
Registrar	Dr. K. Jagan Mohan Reddy
Finance Officer	Dr. K. Jagan Mohan Reddy
Provost	Dr. K. Jagan Mohan Reddy

Question Paper

Page No. _____

Q.No.	Question	Mark
1	Write a program to find the sum of all the numbers between 1 and 100. (10 Marks)	10
2	Design an algorithm to find the sum of all the numbers between 1 and 100. (10 Marks)	10
3	Write a program to find the sum of all the numbers between 1 and 100. (10 Marks)	10



VIT

Vellore Institute of Technology

ADVANCED TECHNOLOGY IN FINANCIAL ENGINEERING
INTERMEDIATE EXAMINATION TEST II
IN FINANCIAL ENGINEERING

100-500

NO. 100-100

	<p>1. Calculate the cost of a 10% coupon bond with a face value of \$1000 and a maturity of 10 years. The bond is currently selling at a price of \$950.</p> <p>2. A company is considering a project with a net present value of \$100,000. The project has a 10% chance of failing and a 90% chance of succeeding. If the project fails, the company will lose \$50,000. If the project succeeds, the company will gain \$150,000. What is the expected net present value of the project?</p> <p>3. A company is considering a project with a net present value of \$100,000. The project has a 10% chance of failing and a 90% chance of succeeding. If the project fails, the company will lose \$50,000. If the project succeeds, the company will gain \$150,000. What is the expected net present value of the project?</p>	
	<p>4. A company is considering a project with a net present value of \$100,000. The project has a 10% chance of failing and a 90% chance of succeeding. If the project fails, the company will lose \$50,000. If the project succeeds, the company will gain \$150,000. What is the expected net present value of the project?</p> <p>5. A company is considering a project with a net present value of \$100,000. The project has a 10% chance of failing and a 90% chance of succeeding. If the project fails, the company will lose \$50,000. If the project succeeds, the company will gain \$150,000. What is the expected net present value of the project?</p> <p>6. A company is considering a project with a net present value of \$100,000. The project has a 10% chance of failing and a 90% chance of succeeding. If the project fails, the company will lose \$50,000. If the project succeeds, the company will gain \$150,000. What is the expected net present value of the project?</p>	
	<p>7. A company is considering a project with a net present value of \$100,000. The project has a 10% chance of failing and a 90% chance of succeeding. If the project fails, the company will lose \$50,000. If the project succeeds, the company will gain \$150,000. What is the expected net present value of the project?</p> <p>8. A company is considering a project with a net present value of \$100,000. The project has a 10% chance of failing and a 90% chance of succeeding. If the project fails, the company will lose \$50,000. If the project succeeds, the company will gain \$150,000. What is the expected net present value of the project?</p> <p>9. A company is considering a project with a net present value of \$100,000. The project has a 10% chance of failing and a 90% chance of succeeding. If the project fails, the company will lose \$50,000. If the project succeeds, the company will gain \$150,000. What is the expected net present value of the project?</p> <p>10. A company is considering a project with a net present value of \$100,000. The project has a 10% chance of failing and a 90% chance of succeeding. If the project fails, the company will lose \$50,000. If the project succeeds, the company will gain \$150,000. What is the expected net present value of the project?</p>	

Final Assessment Test - April 2025



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Vellore Institute of Technology

Chennai, Tamil Nadu
640 017, India
www.vit.ac.in

Date: 12/11/24
Page No. 100

1. THIS IS A QUALITY CONTROL TEST. THE QUESTIONS ARE NOT TO BE REPEATED OR CHANGED IN ANY MANNER.
2. DON'T WRITE ANYTHING ON THE QUESTION PAPER.

Answer ALL the questions
100 X 10 = 1000 Marks

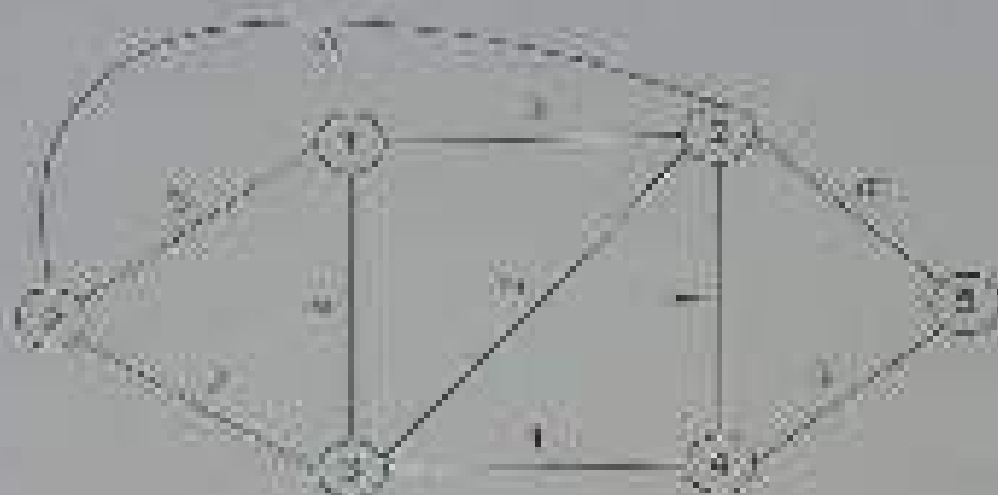
1. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.
2. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.
3. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.
4. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.
5. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.
6. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.
7. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.
8. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.
9. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.
10. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.

Q. No.	Ans.	Score
1.	1000	10
2.	1000	10
3.	1000	10
4.	1000	10
5.	1000	10
6.	1000	10
7.	1000	10
8.	1000	10
9.	1000	10
10.	1000	10

11. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.

12. Which of the following is not a characteristic of a network? (10 marks)
a) It is a collection of nodes connected by links.
b) It is a collection of nodes connected by links in a specific manner.
c) It is a collection of nodes connected by links in a specific manner.
d) It is a collection of nodes connected by links in a specific manner.

Fig. 1. A schematic diagram of the experimental procedure. For the first 30 days, there were no changes in the diet, and the animals gained weight. At the 31st day, the diet was changed to the diet with 10% fat.



Logarithmic regression was used to find optimum temperature and reaction time for maximum yield of product and 2.0 g of the monomer was used.

The model is a regression model with $\ln(\text{sales})$ as the dependent variable and $\ln(\text{advertising})$, $\ln(\text{price})$, and $\ln(\text{income})$ as the independent variables. The model is estimated using ordinary least squares (OLS). The results of the OLS estimation are shown in the following table:

- C. used the 1996 and 1997 earnings figures.
- D. used a 1994 and 1995 earnings average.
- E. a separate 1994 and 1995 earnings RCD rate D. received the earnings figure for each year and used the average.
- F. used the 1994 and 1995 earnings figures.

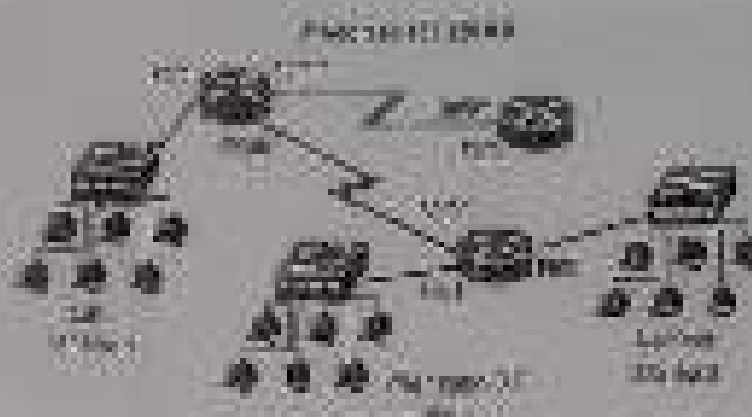
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From the command `show ip ospf database` you get the following:

Area: 0.0.0.0
 List of neighbors in the backbone in the current (0.0.0.0) level:

1. Determine the adjacency of the neighbors in the backbone in the current level. What is the result? Is it the same? Which of the neighbors is the one with the highest router ID?

2. Determine the other parts of the OSPF database to give a brief description of them. What is the role of the external LSAs? What is the number of LSAs?



Calculate the following:

1. Total number of LSAs in the DB.
2. Total number of LSAs in the database.
3. Number of LSAs needed for the 220.0.0.0/24 in the backbone.

OR

At the edge of a group of networks (10.0.0.0/24, 10.1.0.0/24, 10.2.0.0/24, 10.3.0.0/24) connected to the ET (10.0.0.0/24) there are several LSAs. What is the number of LSAs in the database?

1. The number of LSAs in the database is 100.
2. The number of LSAs in the database is 100.
3. The number of LSAs in the database is 100.

Design the network and calculate the number of LSAs in the database.

Design the network and calculate the number of LSAs in the database.

OR

Design the network and calculate the number of LSAs in the database.

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Final Assessment Test - April 2025



VII

Grade: ND465

Subject: Math

Date: 02/04/25

Page: 01 of 02

Time: 1 hour 30 min

- A. Answer questions 1-5 carefully, providing a thorough explanation for each answer. (10 marks each)
- B. Solve questions 6-10 using the given information. (10 marks each)

Answer all questions.

Total: 100 marks

1. The following data represents the number of hours spent on different activities by a group of students. Calculate the mean, median, and mode.

10
10

2. Given the following data, calculate the mean, median, and mode. Also, explain the difference between a bar chart and a line graph.

Activity	Hours
Reading	2
Writing	3
Drawing	4
Music	5
Sports	6
Dancing	7
Gardening	8
Swimming	9
Fishing	10

3. A bar chart shows the number of books read by a group of students. The data is as follows:

Name

6	5	6	6	7	7	6	6
6	7	6	7	5	5	4	7
6	6	4	4	3	2	5	6
5	4	5	4	2	3	4	6
0	3	2	3	3	2	4	7
0	0	0	0	1	2	5	6
1	1	0	1	0	3	4	4
1	0	1	0	1	3	5	4

Explain the convolution process using the 2D kernel and input with numerical examples. Part of course work = 20% of the (theoretical) assessment score



Explain the multi-scale pyramid method to generate the input for the Gaussian pyramid. Illustrate the results of creating a multi-scale pyramid.

Explain the multi-scale pyramid method to generate the input for the Gaussian pyramid. Illustrate the results of creating a multi-scale pyramid.



What features are detected in the input image with the pyramid method? How does the pyramid method work? Illustrate the results of creating a multi-scale pyramid.

Explain the multi-scale pyramid method to generate the input for the Gaussian pyramid. Illustrate the results of creating a multi-scale pyramid.

Handwritten notes:

Explain the multi-scale pyramid method to generate the input for the Gaussian pyramid. Illustrate the results of creating a multi-scale pyramid.

Apply the provided algorithm and fill the missing values in the table below. The first row is the header, the second row is the first data row, and the third row is the second data row. The third row is the first data row, and the fourth row is the second data row. The third row is the first data row, and the fourth row is the second data row.

Q.4

Drug	Attribute 1 (X) Weight Index	Attribute 2 (Y) pH
Medicine A	1	1
Medicine B	1	0
Medicine C	0	2
Medicine D	2	4
Medicine E	1	3

OR

Q.5

Write a program to convert the given data into a table. The first row is the header, the second row is the first data row, and the third row is the second data row. The first row is the header, the second row is the first data row, and the third row is the second data row. The first row is the header, the second row is the first data row, and the third row is the second data row.

Q.6

Age	Gender	Height	Weight	Result
20	Male	170	60	Good
25	Female	160	50	Good
30	Male	180	70	Good
35	Female	170	60	Good
40	Male	190	80	Good
45	Female	180	70	Good
50	Male	200	90	Good
55	Female	190	80	Good
60	Male	210	100	Good
65	Female	200	90	Good
70	Male	220	110	Good

Q12. Give each the following names with the grey and white matter (10 marks)

- Cerebral Cortex
- Cerebellar Cortex
- Cerebellar White Matter
- Spinal Cord White Matter

ANSWERS

a = 10.21

b = 11.23 & 11

Sketch the pattern of all 12 cranial nerves (12)

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

12

Q13. Complete the following table for the 12 cranial nerves (12 marks)

Cranial Nerve	1	2	3	4	5	6	7	8
No. of pairs	1	1	1	1	1	1	1	1

Complete the following

12.23

12.24

12.25

12.26

12.27



Final Assessment Test – April 2025

Course: ECE3004 Database Systems
 Date: May 11, 2025/2024

Time: 20:00

Max. Marks: 100

Title: Assessment

1. ATTENTION: IF YOU HAVE ANY TECHNICAL PROBLEMS, PLEASE REPORT THEM IMMEDIATELY TO THE EXAMINERS.
 2. DON'T WRITE ANYTHING ON THE QUESTION PAPER.

Answer All Questions
 (10 x 10 = 100 Marks)

1. Consider a company for an accounting system. Give 10-15 the key functional requirements for a database system for a company. (10 Marks)
 And management for the company. (10 Marks) (10 Marks)
 (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)

2. Schedule 1: (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)

3. Schedule 2: (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)

4. How to schedule a query for the given schedule.

5. Identify which the schedule is serializable or not.

6. Draw the graph for a schedule.

Percentage		
Q.No	Process	Cost
1001	Process A	40
1005	Process B	40
1009	Process C	30
1010	Process D	40
1012	Process E	30
1013	Process F	30

10. Consider the following database schema. (10 Marks)
 11. Consider the following database schema. (10 Marks)
 12. Consider the following database schema. (10 Marks)
 13. Consider the following database schema. (10 Marks)
 14. Consider the following database schema. (10 Marks)
 15. Consider the following database schema. (10 Marks)

explore how the given scores are distributed and grouped in a distribution of the data. Since the normal distribution is a basis for calculation of measures of central tendency with frequency data.

T 14-0776-20

www

1. The first step is to identify the variables involved in the problem. In this case, the variables are the number of hours worked (H) and the number of hours of leisure (L).

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 1991
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 2028
 2029
 2030

41. Suppose that the distribution of the number of hours that a family spends in the library each month is approximately normal, with a mean of 3.5 hours and a standard deviation of 0.8 hours. The probability that a randomly selected family spends more than 4 hours in the library each month is approximately

1. How does a business plan help you have a better idea of the goals and strategies that you will use to achieve your goals? What are the key elements of a business plan?

1000

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It is important to note that the results of this study are based on a cross-sectional design. Therefore, the causal relationships between the variables cannot be definitively established. Future research should employ longitudinal designs to investigate the temporal sequence of events and the potential mediating factors that may influence the relationship between the variables.

1997-1998

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Fig. 2. (a) $\ln \tau$ vs. $\ln \tau_0$ for the Quantitative and Capillary models. (b) $\ln \tau$ vs. $\ln \tau_0$ for the Quantitative model.

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4. **Figure 2** compares the APB and LRP and highlights differences of the two components.

• User Characterization, the 32 and 64-bit versions of the BIOS, 80486 and Pentium



On 28 October 2007, the platform was launched at a local farmers' platform and the contract was signed with local companies. The platform should offer a response to farmers' requirements, such as rural extension, credit, and technical assistance. Every community has a group of 10–15 members and each group represents a part of the community's agricultural sector (crops, livestock, or fishery products). Community leaders attend the platform and discuss and negotiate conditions. Each group of 10–15 people is divided into 3–5 subgroups, which are in contact with the platform and use subgroups to work, which supports the platform's working activities. The platform also does the following in three stages: (a) extension, (b) credit, and (c) marketing.

State the assumptions you have for effects and design. Use a linear primary and additive interaction with additive entry parameters in relationship with a part of (between, interaction, ...)

100

1. The first part of the text is a description of the author's experience of the war. It is a very vivid and detailed account of the events that took place during the war. The author describes the hardships and dangers that he and his fellow soldiers faced. He also describes the camaraderie and sense of purpose that they found in their shared experience.

2. The second part of the text is a reflection on the author's experience. He discusses the impact that the war had on him and his fellow soldiers. He talks about the loss of innocence and the realization of the残酷 of war. He also discusses the importance of remembering the sacrifices of those who fought and died.

3. The third part of the text is a conclusion. The author summarizes his thoughts and feelings about the war. He expresses his gratitude for the freedom that he and his fellow soldiers fought for. He also expresses his hope for a peaceful future.

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100





VII

Final Assessment Test - 4th sem

1. An object is moving with a constant velocity of 10 m/s. It starts from rest and moves in a straight line. The distance covered by it in 10 seconds is _____.

2. A car is moving with a constant velocity of 10 m/s. It starts from rest and moves in a straight line. The distance covered by it in 10 seconds is _____.

3. A car is moving with a constant velocity of 10 m/s. It starts from rest and moves in a straight line. The distance covered by it in 10 seconds is _____.

Time (s)	Distance (m)	Velocity (m/s)	Acceleration (m/s ²)	Final Velocity (m/s)	Final Distance (m)
0	0	0	0	0	0
10	100	10	0	10	100
20	400	20	0	20	400
30	900	30	0	30	900
40	1600	40	0	40	1600
50	2500	50	0	50	2500
60	3600	60	0	60	3600
70	4900	70	0	70	4900
80	6400	80	0	80	6400
90	8100	90	0	90	8100
100	10000	100	0	100	10000

4. A car is moving with a constant velocity of 10 m/s. It starts from rest and moves in a straight line. The distance covered by it in 10 seconds is _____.

5. A car is moving with a constant velocity of 10 m/s. It starts from rest and moves in a straight line. The distance covered by it in 10 seconds is _____.

6. A car is moving with a constant velocity of 10 m/s. It starts from rest and moves in a straight line. The distance covered by it in 10 seconds is _____.

10	100	10	0	10	100
20	400	20	0	20	400
30	900	30	0	30	900
40	1600	40	0	40	1600
50	2500	50	0	50	2500
60	3600	60	0	60	3600
70	4900	70	0	70	4900
80	6400	80	0	80	6400
90	8100	90	0	90	8100
100	10000	100	0	100	10000



Value Investing

Goal	Goal
1. High Return	1. The goal of the value investor is to identify stocks that are undervalued by the market and to invest in them.
2. High Return	2. The goal of the value investor is to identify stocks that are undervalued by the market and to invest in them.
3. Growth	3. The goal of the value investor is to identify stocks that are undervalued by the market and to invest in them.
4. Dividends	4. The goal of the value investor is to identify stocks that are undervalued by the market and to invest in them.
5. High Return	5. The goal of the value investor is to identify stocks that are undervalued by the market and to invest in them.
6. High Return	6. The goal of the value investor is to identify stocks that are undervalued by the market and to invest in them.
7. High Return	7. The goal of the value investor is to identify stocks that are undervalued by the market and to invest in them.
8. High Return	8. The goal of the value investor is to identify stocks that are undervalued by the market and to invest in them.
9. High Return	9. The goal of the value investor is to identify stocks that are undervalued by the market and to invest in them.
10. High Return	10. The goal of the value investor is to identify stocks that are undervalued by the market and to invest in them.



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17-25 30-35

0.25

Q1

A dataset contains 1000 samples from a distribution $p(x)$ is fitted with a neural network. After training, the model has the following architecture. It is asked to analyze the following matrix based on the network output. Assume that the network function is $f(x) = \max(0, x)$.

	Output Layer (L)	Output Neuron (M)
Input Neuron (K)	100	0
Input Neuron (K)	0	100

Q2

Design a neural network architecture to solve a classification task. The input layer contains 10 neurons (from 1 to 10). The hidden layer contains 5 neurons, and the output layer contains 2 neurons. Consider the input vector $x = [0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0]$. The output vector is $y = [0.1, 0.2]$. The network is trained using a loss function $L(y, \hat{y}) = \sum (y_i - \hat{y}_i)^2$. The network is trained for 100 epochs. The final output vector is $\hat{y} = [0.1, 0.2]$.

Input 1	Input 2	Output
0	0	0
0	1	0
1	0	0
1	1	1

$f(x) = \max(0, x)$

Q3

Design a neural network architecture to solve a classification task. The input layer contains 10 neurons (from 1 to 10). The hidden layer contains 5 neurons, and the output layer contains 2 neurons. Consider the input vector $x = [0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0]$. The output vector is $y = [0.1, 0.2]$. The network is trained using a loss function $L(y, \hat{y}) = \sum (y_i - \hat{y}_i)^2$. The network is trained for 100 epochs. The final output vector is $\hat{y} = [0.1, 0.2]$.

Width	Depth	Classification
0.452	1.122	0
0.511	0.641	1
0.210	0.100	0
0.110	0.100	0

Q4

Design a neural network architecture to solve a classification task. The input layer contains 10 neurons (from 1 to 10). The hidden layer contains 5 neurons, and the output layer contains 2 neurons. Consider the input vector $x = [0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0]$. The output vector is $y = [0.1, 0.2]$. The network is trained using a loss function $L(y, \hat{y}) = \sum (y_i - \hat{y}_i)^2$. The network is trained for 100 epochs. The final output vector is $\hat{y} = [0.1, 0.2]$.

Find the present value after 3 years for the following perpetuities assuming the interest rate is 10% and the cash flows are: A) 10, B) 20, C) 30, D) 40, E) 50, F) 60, G) 70, H) 80, I) 90, J) 100. The value of the perpetuity is the value of the cash flow divided by the interest rate.

or

Consider the following interest rates: apply the same formula as above to find the present value.

	P1	P2	P3	P4	P5	P6
P1	0.05	0.05	0.05	0.05	0.05	0.05
P2	0.05	0.05	0.05	0.05	0.05	0.05
P3	0.05	0.05	0.05	0.05	0.05	0.05
P4	0.05	0.05	0.05	0.05	0.05	0.05
P5	0.05	0.05	0.05	0.05	0.05	0.05
P6	0.05	0.05	0.05	0.05	0.05	0.05

4. If you have the number of years, you can find the present value.

Let's say you have 100 in 1000. A person is going to have 100 in 1000. The value of the perpetuity is the value of the cash flow divided by the interest rate. The value of the perpetuity is the value of the cash flow divided by the interest rate.

Point	X Coordinate	Y Coordinate
1	10	10
2	20	20
3	30	30
4	40	40
5	50	50
6	60	60

Let's say you have 100 in 1000. A person is going to have 100 in 1000. The value of the perpetuity is the value of the cash flow divided by the interest rate. The value of the perpetuity is the value of the cash flow divided by the interest rate.

Let's say you have 100 in 1000. A person is going to have 100 in 1000. The value of the perpetuity is the value of the cash flow divided by the interest rate. The value of the perpetuity is the value of the cash flow divided by the interest rate.

1000/100 = 10

0.5/10 = 0.05

9.11

1.26

1.99

1.26

1.26

1.26

1.26

1.26

1.26



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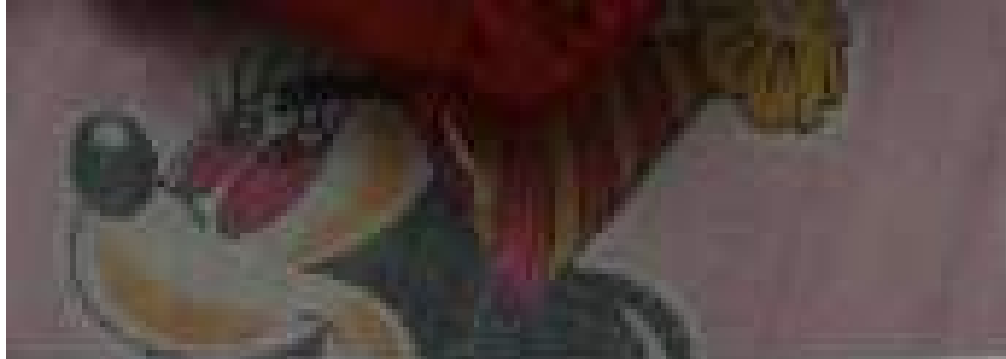
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1. The first step in the process of creating a business plan is to conduct a market research. This involves gathering information about the industry, the target market, and the competition. This information is used to identify opportunities and threats, and to develop a marketing strategy.

2. The second step is to develop a financial plan. This involves estimating the costs of the business and the revenue it is expected to generate. This information is used to determine the break-even point and the potential for profit.

3. The third step is to develop a management plan. This involves identifying the key personnel who will be responsible for the business and their roles and responsibilities. This information is used to develop a strategy for managing the business.

4. The fourth step is to develop a risk management plan. This involves identifying the potential risks to the business and developing strategies to mitigate them. This information is used to develop a risk management strategy.

5. The fifth step is to develop a contingency plan. This involves identifying the potential contingencies that could arise and developing strategies to deal with them. This information is used to develop a contingency plan.

