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Name of the School <small>(Please tick, symbol is given)</small>	:	SOB	✓	SOMM		SOLS	
Programme	:	BBA					
Semester	:	1st					
Name of the Course	:	Business Computing					
Course Code	:	DSIT1001					
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Note: Please mention additional Stationery to be provided, during examination such as Table/Graph Sheet etc. else mention "NOT APPLICABLE":							
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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2022

Course: Business Computing
Program: BBA
Course Code: DSIT1001

Semester: 1st
Time: 03 hrs.
Max. Marks: 100

Instructions: Attempt all questions.

SECTION A
10Qx2M=20Marks

S. No.		Marks	CO
Q1	The _____ is the program that manages the hardware of the computer system, including the CPU, memory, storage devices, and input/output devices.	2	CO1
Q2	A string of _____ 0s and 1s is called a byte.	2	CO3
Q3	_____ is the set of computer instructions or programs that enables the hardware to perform different tasks.	2	CO1
Q4	The most common type of memory that the computer uses to process data is ROM. (T/F)	2	CO2
Q5	The CPU and memory are located on a special circuit board in the system unit called the motherboard. (T/F)	2	CO1
Q6	From which menu you can insert Header and Footer in Microsoft Word? A. Format menu B. View menu C. Tools menu D. Insert menu	2	CO2
Q7	Bit is also called -----? A. Small B. Character C. Byte D. Binary Digit	2	CO1
Q8	Borders can be applied to-----? A. Cells B. Text C. Paragraph D. All of these	2	CO2
Q9	Which network topology requires a central controller or hub? A. Star B. Mesh C. Ring D. Bus	2	CO2
Q10	The following pseudo code is an example of _____ structure: Get number Get another number	2	CO3

	<p>If first number is greater than second, then print first number else print second number</p> <p>A. Sequence B. Decision</p> <p>C. Loop D. Nested</p>		
SECTION B 4Qx5M= 20 Marks			
Q11	What is computer Software? Explain system software and application software with examples.	5	CO1
Q12	Write a short note on Microsoft Word? List any five functions.	5	CO1
Q13	Explain network topology with diagram? Differentiate between ring and bus topology.	5	CO2
Q14	Discuss the main features of SPSS.	5	CO1
SECTION-C 3Qx10M=30 Marks			
Q15	<p>Compute the hexadecimal equivalent of the given binary numbers:</p> <p>a) 1011010101001 b) 1100101100001</p>	10	CO2
Q16	<p>Discuss the role of an operating system with respect to following functions:</p> <p>a) Memory Management b) Device Management</p>	10	CO1
Q17	<p>Compute ciphertext using Vigenere Cipher technique, if the plaintext is “we are discovered save yourself” and key is “deceptive”.</p> <p style="text-align: center;">OR</p> <p>In a public key system, perform encryption and decryption using the RSA algorithm for $p = 7$; $q = 17$; $e = 11$; $M = 11$.</p>	10	CO3
SECTION-D 2Qx15M= 30 Marks			
Q18	<p>Suppose that you have trained a robot to carry a box of 40 tapes. If each tape contains 7 gigabits data and the speed of robot is 18km/hour, then for what range of distances does robot can have a higher data rate than a transmission line whose data rate is 14 megabytes per second? What would be the effect on the range of distances if:</p> <p>a) The capacity of each tape is doubled. b) The speed of robot is doubled; and c) The data rate of the transmission line is doubled.</p>	15	CO2

Q19	<p>Design an algorithm which generates even numbers between 1000 and 2000 and then prints them in the standard output. It should also print total sum.</p> <p style="text-align: center;">OR</p> <p>Draw a flowchart for the problem of printing odd numbers less than 100. It should also calculate their sum and count.</p>	15	CO3
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