Name: **Enrolment No:**	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Supplementary Examination, December 2023

Course: **Business Computing** **Semester : I**
Program: **BBA** **Time : 03 hrs.**
Course Code: DSIT1001 **Max. Marks: 100**

Instructions:

SECTION A
10Qx2M=20Marks

S. No.		Marks	CO
Q1	A _____ is approximately 1,000 bytes.	**2**	**CO3**
Q2	The type of operating system software you use depends on your computers _____.	**2**	**CO2**
Q3	You would use _____ software to create spreadsheets, type documents, and edit photos.	**2**	**CO1**
Q4	Data can be number a word, a picture, or a sound. (T/F)	**2**	**CO2**
Q5	Bus is a type of topology. (T/F)	**2**	**CO1**
Q6	From which menu you can insert Header and Footer in Microsoft Word? A. Format menu C. Tools menu B. View menu D. Insert menu	**2**	**CO2**
Q7	Bit is also called ----------? A. Small C. Byte B. Character D. Binary Digit	**2**	**CO1**
Q8	Borders can be applied to-------? A. Cells C. Paragraph B. Text D. All of these	**2**	**CO2**
Q9	Which network topology requires a central controller or hub? A. Star C. Ring B. Mesh D. Bus	**2**	**CO2**
Q10	The following pseudo code is an example of _____ structure: Get number Get another number If first number is greater than second, then print first number else print second number	**2**	**CO3**

	A. Sequence C. Loop B. Decision D. Nested		
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 PowerPoint. List any three functions.	**5**	**CO1**
Q13	Explain network topology with diagram? Differentiate between star and bus topology.	**5**	**CO2**
Q14	Discuss the main features of SPSS.	**5**	**CO1**
SECTION-C **3Qx10M=30 Marks**			
Q15	Compute the hexadecimal equivalent of the given binary numbers: i. 1011010101111 ii. 1111101100001	**10**	**CO2**
Q16	Discuss the role of an operating system with respect to following functions: a) Process Management b) Security Management	**10**	**CO1**
Q17	Compute ciphertext using Vigenere Cipher technique, if the plaintext is "we are discovered save yourself" and key is "deceptive". OR In a public key system, perform encryption and decryption using the RSA algorithm for p = 7; q = 17; e = 11; M = 11.	**10**	**CO3**
SECTION-D **2Qx15M= 30 Marks**			
Q18	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: 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.	**15**	**CO2**
Q19	Design an algorithm which generates odd numbers between 2 and 20 and then prints them in the standard output. It should also print total sum. **OR** Draw a flowchart for the problem of printing even numbers less than 20. It should also calculate their sum and count.	**15**	**CO3**