**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.	10Qx2lv1=20lv1a1 ks	Marks	СО
Q1	A is approximately 1,000 bytes.	2	CO3
Q2	The type of operating system software you use depends on your computers	<del>-</del>	
<u> </u>	————·	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  B. View 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 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		1
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: <ul> <li>a) Process Management</li> <li>b) Security Management</li> </ul>	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		
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	СОЗ