BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (MID SEMESTER EXAMINATION SP/2023)

CLASS: BRANCH		SEMESTER : IV SESSION : SP/2023			
TIME:	SUBJECT: BE214R1 NATURAL PRODUCT BIOTECHNOLOGY 02 Hours FU	, FULL MARKS: 25			
 INSTRUCTIONS: 1. The question paper contains 5 questions each of 5 marks and total 25 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates 					
Q.1(a) Q.1(b)	Categorize the sources of natural products citing suitable examples. Evaluate the importance of secondary metabolites giving two suitable examples		[2] [3]	CO CO1 CO1	BL 4 6
Q.2(a) Q.2(b)	Compare the phytochemicals used as drugs giving examples. Justify giving suitable examples that major biosynthesis pathways of metabolin interrelated.		[2] [3]		4 6
Q.3(a) Q.3(b)	Interpret the importance of terpenoids. Assess the significance of secondary metabolites produced by microorganisms two suitable examples.		[2] [3]	CO1 CO1	3 6
Q.4(a) Q.4(b)	Illustrate the Ephidrine biosynthesis pathway. Analyze the correlation between phenylpropanoids biosynthesis and the shikim pathway.		[2] [3]	CO2 CO2	3 4
Q.5(a)	Choose and explain the qualitative and quantitative test performed for screen any <u>one</u> phytochemical.	ning of [[2]	C02	3
Q.5(b)	Outline the method for screening of microbes with bioactivities giving a su example.	uitable [[3]	CO2	4

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