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

CLASS: BE SEMESTER: VII BRANCH: ECE SESSION: MO/2022

SUBJECT: EC407 MULTI-CHANNEL SIGNAL PROCESSING

TIME: 2 HOURS FULL MARKS: 25

INSTRUCTIONS:

- 1. The total marks of the questions are 25.
- 2. Candidates attempt for all 25 marks.
- 3. Before attempting the question paper, be sure that you have got the correct question paper.
- 4. The missing data, if any, may be assumed suitably.
- 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

Q1 Q1	(a) (b)		[2] [3]	CO 1 1	BL 1 2
Q2 Q2	(a) (b)	, , 1 , _ , _ , _ , _ , _ , , , , _ ', , ,	[2] [3]	1 2	1
Q3	(a)		[2]	3	4
Q3	(b)	analysis. Define the terms: uncorrelatedness and whitening	[3]	2	2
Q4 Q4	(a) (b)	9	[2] [3]	2 3	1 5
Q5 Q5	(a) (b)	Explain Kolmogoroff complexity for ICA. Why do we include non-Gaussianity in ICA?	[2] [3]	3 2	2

::::: 28/09/2022 :::::M