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

CLASS: BE SEMESTER: VI BRANCH: CHEM-POLY SESSION: SP/2020

SUBJECT: PC6005 POLYMER PROCESSING

TIME: 1.5 HOURS FULL MARKS: 25

INSTRUCTIONS:

- 1. The total marks of the questions are 30.
- 2. Candidates may attempt for all 30 marks.
- 3. In those cases where the marks obtained exceed 25 marks, the excess will be ignored.
- 4. Before attempting the question paper, be sure that you have got the correct question paper.
- 5. The missing data, if any, may be assumed suitably.
- 6. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

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Q1	(a) (b)	Discuss vented extruder with a neat sketch. Discuss the function of different zones in the standard extruder screw with a neat sketch.	[2] [3]
Q2		Discuss the following extruders with a neat sketch? (i) Drum Extruder (ii) Multi-ram Extruder	[2x2.5]
Q3	(a) (b)	Write down the advantages and disadvantages of compression moulding. Discuss basic process cycle of compression moulding with a neat sketch.	[2] [3]
Q4	(a) (b)	Discuss Pot type transfer moulding with a neat sketch. Discuss the effect of different processing parameters on compression moulding.	[2] [3]
Q5	(a) (b)	Write down the advantages of blow moulding process. Discuss the process of extrusion blow moulding with a neat sketch.	[2] [3]
Q6	(a) (b)	How bi-axial orientation is achieved in injection-stretch blow moulding process? Discuss the process of Injection-stretch blow moulding with a neat sketch.	[2] [3]

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