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MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
(A constituent unit of MAHE, Manipal)

IV SEMESTER B.TECH. (PRINT AND MEDIA TECHNOLOGY)

END SEMESTER EXAMINATIONS, APRIL / MAY 2019

SUBJECT: PE 1- PACKAGING MATERIALS [PMT 4002]

REVISED CREDIT SYSTEM
(04/05/2019)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer **ALL** the questions.
- ❖ Missing data may be suitable assumed.

- 1A.** Which is the most important class of paper board? Explain
- 1B.** Which adhesive is having high tack and internal cohesion? Explain.
- 1C.** "Coated papers are totally different from a normal uncoated paper". Justify this statement.

[03 + 03 + 04]

- 2A.** What is meant by seasoning of wood? Explain different types of seasoning with neat sketch.
- 2B.** Which are the different standards of Glass? Explain along with its applications and advantages.
- 2C.** Explain the different steps of tin plate production.

[03 + 03 + 04]

- 3A.** How the sustainability issues of plastic can be addressed? Explain with its advantages.
- 3B.** Which plastic film market is expected to witness a growth rate of around 5.50%? Explain with reason / applications.
- 3C.** Explain HM/HDPE and PS, along with its properties and applications.

[03 + 03 + 04]

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- 4A.** What are the characteristics of the cushioning materials found in the package? Explain.
- 4B.** Give the classification of cushioning materials and explain with relevant examples.
- 4C.** How cushioning materials are designed? Explain the steps involved.

[03 + 03 + 04]

- 5A.** Why two or more flexibles are combined? Explain with a relevant example.
- 5B.** With a neat sketch, analyze the cross section of a flexible film used in laminates.
- 5C.** How the flexibles are combined using heat (dry) and wet method? Explain with neat sketch.

[03 + 03 + 04]