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		C Marinette
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## APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SECOND SEMESTER B. TECH DEGREE EXAMINATION (R & S), MAY 2019

**Course Code: BE102** 

Course Name: DESIGN AND ENGINEERING

Max. Marks: 50

**Duration: 2 Hours** 

Instructions: This is an open book examination and the students are permitted to use maximum of 4 text books, class notes, own notes, earlier assignments; but access to mobile phone and internet is not allowed. Exchange of text books/notes not permitted. PART A

Answer any 6 questions, each carries 5 marks

Marks

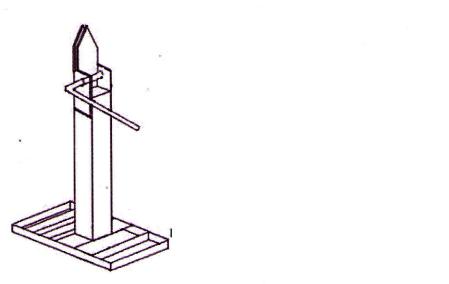
(5)

- List the objectives and constrains for designing a "lunch box" for school students. (5)
- A car manufacturer wants to introduce a new electric car in the market. Prepare a survey questionnaire to collect feedback from the market to get their need and (5)

to find out the feasibility of the project.

- Imagine that you own a pizza shop. Prepare a house of quality for your product using the concept of Quality Function Deployment(QFD)

  (5)
- 4 Prepare the objective tree for the product coconut peeling machine given below.



What are the factors to be considered for the selection of material for an (5)

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