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FACULTY OF ENGINEERING & TECHNOLOGY

M.E.(MECH)Year Examination-June-2015

EL-III Computer Aided Design

(Revised)

Time: Three Hours

Maximum Marks: 80

“Please check whether you have got the right question paper.”

i) Solve any three questions from each section

SECTION-A

- | | | |
|-----|--|----|
| Q.1 | What is the importance of design? Explain design process in detail. | 13 |
| Q.2 | Write in detail about Hardware and software for CAD | 13 |
| Q.3 | Write about the capabilities, modules and sketching tools used in CATIA. | 13 |
| Q.4 | What is concatenated representation? Explain with an example in detail | 13 |
| Q.5 | Write short notes on (<u>any two</u>) | 14 |
| | a) Product architecture | |
| | b) Data exchange tools | |
| | c) Geometric transformations | |

SECTION-B

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|------|--|----|
| Q.6 | Write in detail about IGES and STEP data exchange standards | 13 |
| Q.7 | What is boundary representation and CSG? Explain in detail | 13 |
| Q.8 | What is assembly modeling? Explain in detail | 13 |
| Q.9 | Write about feature based modeling (FBM) with examples in detail | 13 |
| Q.10 | Write short notes on (<u>any two</u>) | 14 |
| | a) Data structures | |
| | b) Cell decomposition | |
| | c) Open CASCADE | |