

**B.Tech. MECHANICAL ENGINEERING
(COMPUTER INTEGRATED
MANUFACTURING)**

Term-End Examination

December, 2017

00542

**BME-023 : ADVANCED MANUFACTURING
TECHNOLOGY**

Time : 3 hours

Maximum Marks : 70

*Note : Attempt any **seven** questions. All questions carry equal marks.*

1. Specify projected growth for Ceramic Near Net Shape Manufacturing. 10

2. What do you understand by Nanotechnology ? Discuss the applications of nanomaterials. 10

3. What is Hybrid manufacturing ? Explain the hybrid manufacturing process for optical fibres. 10

4. Discuss implementation of the mechanism of concurrent engineering. 10

5. What is the concept of Quality Functional Development (QFD) ? How is QFD relevant for organisations ? 10
 6. What is LENS technique ? Explain its working process with a neat sketch. 10
 7. What is Rapid Tooling ? Explain Room Temperature Vulcanised (RTV) tools. 10
 8. Explain generic process in reverse engineering with the help of a block diagram. 10
 9. What is the difference between Local Area Network (LAN) and Wide Area Network (WAN) ? 10
 10. How is e-manufacturing strategy performed ? 10
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