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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER– VIII (New) EXAMINATION – WINTER 2019 Subject Code: 2181921 Date: 0

Subject Code: 2181921 Subject Name: Design For Manufacturing And Assembly

Time: 02.30 PM TO 05.00 PM

Date: 02/12/2019

**Total Marks: 70** 

<ul> <li>(b) What is Geometrical Tolerance? Draw the Symbols used for Form tolerance &amp; Orientation tolerance.</li> <li>(c) Suggest the appropriate material and manufacturing process for the following product with justification.(1) Crank-shafts (2) Gear Box Housing (3) Lead screw of lathe.</li> <li>(c) Explain the Design for Accessibility.</li> <li>(d) Explain the Design for Accessibility.</li> <li>(e) Explain the Design for Recyclability with suitable example.</li> <li>(f) Discuss Design Recommendation For Parts Generated by machining process.</li> <li>(g) Explain role of computers in DFMA.</li> <li>(h) Explain role of computers in DFMA.</li> <li>(c) Discuss the Influence of materials on form design.</li> <li>(c) Suggest the methods to minimize the core requirements in casting product.</li> <li>(c) Suggest the design rules to produce cost effective casting component.</li> <li>(d) Suggest the methods to minimize the machining area requirements in dationed product.</li> <li>(e) Discuss the selection criterion of selection of manufacturing process with respect to metal casting and metal forming? Justify your answer.</li> <li>(c) Discuss the selection criterion of selection of machining process.</li> <li>(c) Explain in brief the Design for clampability and disassembly with respect to machining process.</li> <li>(c) Explain the Design for economy with respect to machining process.</li> <li>(c) Explain the Design for energy efficiency with suitable example.</li> <li>(d) Explain the Design for energy efficiency with suitable example.</li> <li>(e) Explain the Design for energy efficiency with suitable example.</li> <li>(f) Explain the Design for energy efficiency with suitable example.</li> <li>(g) Suggest the artification of role on energy efficiency with suitable example.</li> <li>(f) Discuss the selection criterion of selection of machining process.</li> <li>(g) Explain the Design for economy with respect to machining process.</li> <li>(h) Explain the Design for energy efficiency with suitable example.</li> <li>(h)</li></ul>	Time: 02:30 PM TO 05:00 PM Total Marks: 70			
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