

MEC PYQ 1 - pyq

Engineering graphics and digital fabrication (Lovely Professional University)



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Registration No .._

23241MEC21982 Paper Code: A

Course Code: MEC136 Course Title: ENGINEERING GRAPHICS AND DIGITAL FABRICATION Max Marks: 70

Time Allowed: 03:00hrs.

Read the following instructions carefully before attempting the question paper.

1. This question paper is divided into two parts A and B,

2. Part A contains 10 questions of 2 marks each. All questions are compulsory. 3. Part B contains 10 questions of 2 marks each. All questions are compulsory.

3. Part B contains 6 questions of 10 marks each. Attempt any 5 questions out of these 6 questions. In case all the 6 questions are computed by a contained to the second of th case all the 6 questions are attempted then only the first five attempted questions will be evaluated.

4. Answer all questions in serial order.

Do not write or mark anything on the question paper except your registration no. on the designated space.

Q1. Part-A

(a) Define the term "Isometric projection"

CO4,L3, [2 marks]

(b) Write down the difference between isometric projection and orthographic projection

CO4,L3, [2 marks]

(c) Write down the importance and use of surface development method

CO4,L3, [2 marks]

(d) Write down the applications of rapid prototyping

CO5,L1, [2 marks]

(e) Define the term digital manufacturing

CO5,L1, [2 marks]

(f) What are the advantages of digital manufacturing?

CO1,L1, [2 marks]

(g) How can rapid prototyping facilitate collaboration between design teams and stakeholders?

(h) Explain the concept of iterative prototyping and its importance in the development cycle.

CO3,L1, [2 marks]

(i) What are some post-processing steps often required after rapid prototyping to achieve a functional CO4,L1, [2 marks] prototype?

(j) How has the accessibility of 3D printing technology impacted the adoption of rapid prototyping? CO5,L1, [2 marks]

Q2). Construct a Plain Scale to show meters & decimeters when 1 m is represented by 2.5 cm. The scale should be long enough to measure up to 6m. Mark off 2.4 m, 5.8 m, 3.9 m, 4.6, and 2.7 m on the scale.

Q3). Draw the projection of following point on a common XY Line Point P 40 mm above HP and 25 mm in front of VP Point R 70 mm above HP and 30 mm behind the VP Point S 30 mm below HP and 50 mm behind the VP Point T 35 mm below HP and 40 mm infront of VP. G in both HP and VP.

CO1,L2, [10 marks]

CO6,L1, [2 marks]

CO2,L1, [10 marks]

Q4). Draw the front view and Top view of the object shown



CO1,L3, [10 marks]

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