



Fourth Semester B.E. Degree Examination, Jan./Feb. 2021 Kinematics of Machines

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1. a. Define the following terms:
 - i) Kinematic link
 - ii) Kinematic chain
 - iii) Kinematic pair
 - iv) Degree of freedom
 - v) Inversion.

(10 Marks)
- b. Explain with a neat sketch:
 - i) Toggle Mechanism
 - ii) Ratchet and Pawl mechanism.

(10 Marks)

OR

2. a. Explain with a neat sketch, the working of Elliptical Trammel. (10 Marks)
- b. Explain with a neat sketch, crank and slotted lever Quick return motion mechanism. (10 Marks)

Module-2

3. In the four bar mechanism shown in Fig.Q.3(a) the lengths of various links are $AB = 190\text{mm}$, $BC = CD = 280\text{mm}$, $AD = 500\text{mm}$, $\angle BAD = 55^\circ$. The crank AB rotates at 10 rad/s in clockwise direction. Determine: i) Acceleration of links BC and CD ii) Angular Acceleration of BC and CD . (20 Marks)

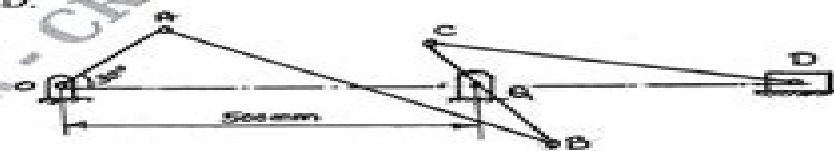
Fig.Q.3



OR

4. a. State and Prove Kennedy theorem. (08 Marks)
- b. Fig.Q.4(b) shows a six link mechanism. The dimensions of the links are $OA = 100\text{mm}$, $AB = 580\text{mm}$, $BC = 300\text{mm}$, $QC = 100\text{mm}$, $CD = 350\text{mm}$. The crank OA rotates clockwise at 150rpm . For the position when crank OA makes an angle of 30° with the horizontal. Determine: i) Linear velocities of the pivot points B, C, D ii) Angular velocities of the links AB, BC and CD . (12 Marks)

Fig.Q.4(b)



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Michael Seilmaier



Vtu Question Paper For Mech:

Metal Casting and Welding Anup Goel, 2020-12-01 Metal casting is the process of producing metal or alloy component parts. In casting, the metal is heated sufficiently to make it into liquid and then poured into moulds of the desired shape. Casting is most often used for making complex shapes so that would be difficult or uneconomical to make by other methods. Welding is a fabrication process that joins materials, usually metals, by using high heat to melt the parts together and allowing them to cool, causing fusion. Many different energy sources can be used for welding, including gas flame, electric arc, a laser, and electron beam, friction, and ultrasonic. Our hope is that this book, through its careful explanations and concepts and its use of sketches and figures, bridges the gap between knowledge and proper application of that knowledge. *ICT for Competitive Strategies* Durgesh Kumar Mishra, Nilanjan Dey, Bharat Singh Deora, Amit Joshi, 2020-05-05 Fourth International Conference on Information and Communication Technology for Competitive Strategies targets state of the art as well as emerging topics pertaining to information and communication technologies, ICTs, and effective strategies for its implementation for engineering and intelligent applications. *Teachers' Journal*, 1960 *Instrument Practice*, 1953 *Soviet Journal of Optical Technology*, 1969 *National Union Catalog*, 1980 Includes entries for maps and atlases. *Editor & Publisher*, 1945 *The National Union Catalogs, 1963-*, 1964 **The National union catalog, 1968-1972**, 1973 **Who's who in America**, 1956 *Previous Years' Solved Question Papers GATE Mechanical Engineering 2019* Pearson, *Previous Years Solved Question Papers GATE Mechanical Engineering 2019*

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