Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–III (NEW) EXAMINATION – SUMMER 2019

Subject Code: 2132001 Date: 04/06/2019

Subject Name:Industrial Drafting

Time: 02:30 PM TO 05:30 PM Total Marks: 70

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

			MARKS
Q.1	**(a)**	Draw the conventional representation of bearing, worm wheel, petrol.	**03**
	(b)	Draw a neat sketches of chain dimensioning and parallel dimensioning.	**04**
	(c)	Classify the assembly drawing. Explain any two of them with rough sketch.	**07**
Q.2	**(a)**	Define: Minor Diameter, Nominal Diameter, and Root.	**03**
	(b)	Explain aligned and unidirectional dimensioning with neat sketch.	**04**
	(c)	A vertical cylinder of 70 mm diameter is penetrated by another cylinder of same size the axis of the penetrating cylinder is parallel to both the HP and VP and is 10 mm away from the axis of the vertical cylinder. Draw the projections showing curves of intersection.	**07**
		OR	
	(c)	A vertical cone, base 90 mm diameter, axis 110 mm long is penetrated by a horizontal cylinder of 50 mm diameter, the axis of which is 27 mm above the base of the cone, parallel to the VP and 5 mm away from the axis of the cone. Draw the projections, showing curves of intersection.	**07**
Q.3	**(a)**	Differentiate between right and left hand threads.	**03**
	(b)	Difference between key and cotter.	**04**
	(c)	Explain the need of sectional views. Explain any one of them with suitable example.	**07**
		OR	
Q.3	**(a)**	Explain the revolved section with suitable example.	**03**
	(b)	Explain flanged nut and wing nut with rough sketch.	**04**
	(c)	Explain Sectioning Convention with suitable example.	**07**
Q.4	**(a)**	Enlist all types of the foundation bolts and give its application.	**03**
	(b)	Explain two different types of keys with a neat sketches.	**04**
	(c)	Draw two views of a hexagonal headed bolt, 26 mm diameter and 90 mm long, with a hexagonal nut and a washer.	**07**
		OR	
Q.4	**(a)**	Explain the use of washer with proper drawing.	**03**
	(b)	Explain the use of buttress thread with suitable example.	**04**
	(c)	Explain Split-muff Coupling with neat sketch.	**07**

Q.5	**(a)**	Explain the importance of tolerance.	**03**
	(b)	Explain the following terms: Limits, Deviation, Basic Size, Design Size	**04**
	(c)	Mention the advantages and disadvantages of CAD	**07**
		OR	
Q.5	**(a)**	Draw the standards symbols and give illustration for : Straightness, circularity, parallelism.	**03**
	(b)	List all the types of V- thread and Explain anyone with neat sketch.	**04**
	(c)	Enlist the various commands available in modify tool box of AUTO CAD. Explain any two of them by giving suitable example.	**07**

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