## Code No.: 13514

## VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD B.E. (Mech. Engg.: CBCS) III-Semester Main Examinations, December-2018

## **Machine Drawing**

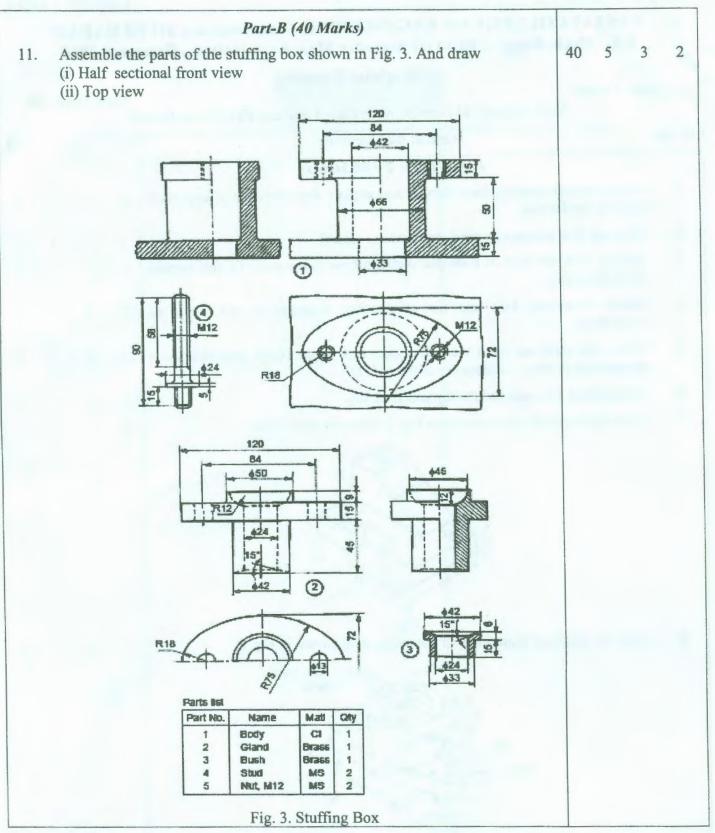
Time: 3 hours

Max. Marks: 60

Note: Answer ALL questions in Part-A and any FIVE from Part-B

Q. No	Stem of the Question	M	L	CO	PO
	$Part-A (10 \times 2 = 20 Marks)$				
1.	Sketch typical drawing sheet format and explain the relevance of important items in the format.	2	1	1	1
2.	What are five commonly used enlargement scales?	2	1	1	1
3.	Explain with the help of a simple sketches how to represent (i) full section (ii) Half section.	2	2	1	1
4.	Sketch hexagonal bolt and nut of nominal diameter D and show all proportions.	2	1	2	1
5.	Sketch the sectional front view of socket and spigot cotter joint and show proportions in terms of diameter of the rod 'D'.	2	2	2	1
6.	Differentiate between saddle key and sunk key.	2	2	2	1
7.	From the isometric view shown in Fig. 1. draw the front view.	2	3	1	1
8.	Draw the sectional front view of the component shown in Fig. 2.  DIA 20 C' BORE DIA 30  DEEP 6  R 15  2 HOLES. DIA 12  Pic. 2	2	3	1	
9.	Fig. 2 Sketch the sectional front view of a split-muff coupling indicating all proportional dimensions for connecting two shafts of 30mm diameter.	2	1	2	
10.	Sketch the sectional front view and top view of single riveted, single strap butt joint showing all the dimensions to connect two plates each 10 mm thick.	2	1	2	

Code No.: 13514



M: Marks; L: Bloom's Taxonomy Level; CO: Course Outcome; PO: Programme Outcome

S. No.	Criteria for questions	Percentage
1	Fundamental knowledge (Level-1 & 2)	27
2	Knowledge on application and analysis (Level-3 & 4)	6
3	*Critical thinking and ability to design (Level-5 & 6)	67
	(*wherever applicable)	