

**COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**B.TECH. DEGREE III SEMESTER SUPPLEMENTARY EXAMINATION IN  
MARINE ENGINEERING DECEMBER 2020**

**MRE 1306 MACHINE DRAWING  
(2013 Scheme)**

Time: 30 Minutes [for Answering and Scanning/Uploading the page of the Answer Sheet]

Max. Marks: 10

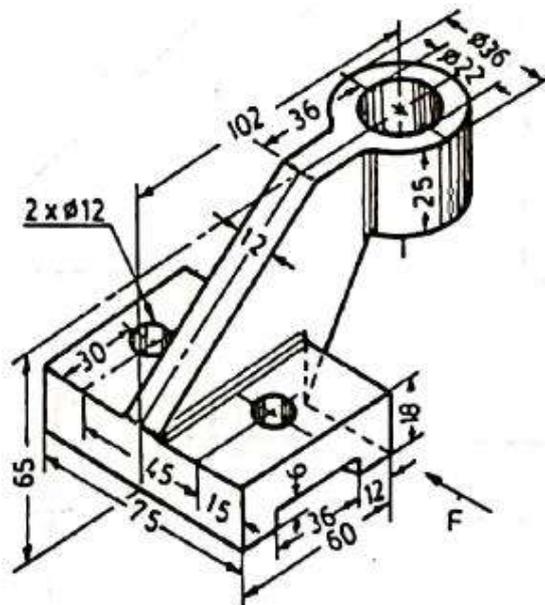
**INSTRUCTIONS**

1. You have to be available in Google Meet Video Camera throughout the examination hours.
2. Those students who are not present through Google Meet Video Camera will not be permitted to write the online examination.
3. You have to share your 'live location' to the faculty before uploading the answer sheet.
4. You have to answer only one question.
5. You have to write register number, subject code and module/group number (as given in the question paper) in each page.
6. Answer may not exceed one page of an A4 size paper in a standard handwriting, as far as possible.
7. If at all an answer goes beyond one page, (due to your handwriting) another page can also be used. In such a situation, the page number should be given as 1/2, 2/2.
8. You have to put the Question Number correctly.
9. After answering the question, you have to scan in pdf format and upload the answer page in a format of <reg. no.><module/group no.><question no.>.pdf.

**MODULE - I**

(Answer *ANY ONE* question)

- I(1). An isometric view of a shaft support is shown in the figure below. Draw the following views: (10)
- (i) Front elevation looking in the direction of **F**
  - (ii) Plan



**OR**

- I(2). Draw an acme thread in section of pitch 40 mm showing at least three threads and mark the proportions in the drawing. (10)

**COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**B.TECH. DEGREE III SEMESTER SUPPLEMENTARY EXAMINATION IN  
MARINE ENGINEERING DECEMBER 2020**

**MRE 1306 MACHINE DRAWING  
(2013 Scheme)**

Time: 40 Minutes [for Answering and Scanning/Uploading the page of the Answer Sheet]

Max. Marks: 15

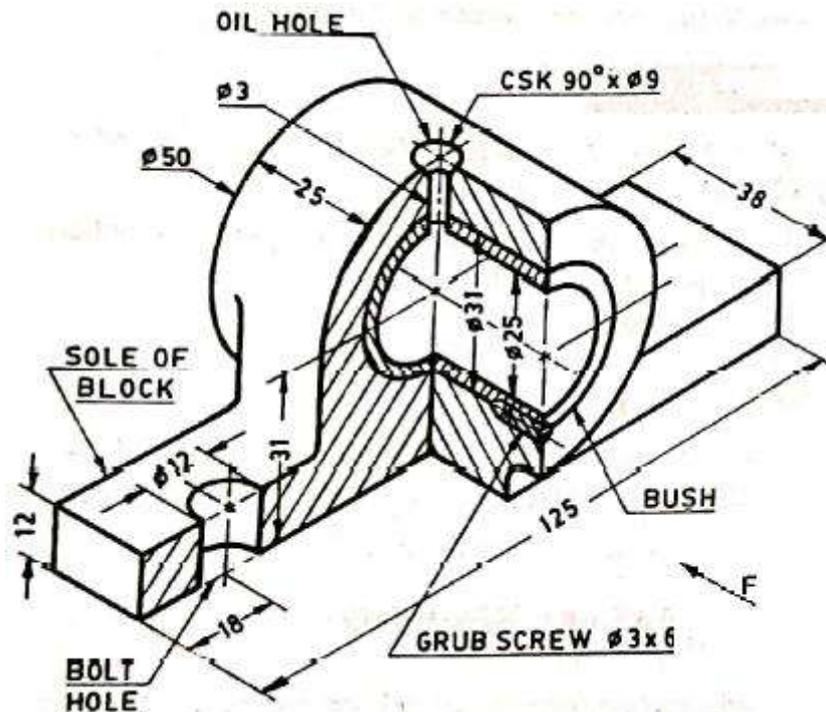
**INSTRUCTIONS**

1. You have to be available in Google Meet Video Camera throughout the examination hours.
2. Those students who are not present through Google Meet Video Camera will not be permitted to write the online examination.
3. You have to answer only one question.
4. You have to write register number, subject code and module/group number (as given in the question paper) in each page.
5. Answer may not exceed one page of an A4 size paper in a standard handwriting, as far as possible.
6. If at all an answer goes beyond one page, (due to your handwriting) another page can also be used. In such a situation, the page number should be given as 1/2, 2/2.
7. You have to put the Question Number correctly.
8. After answering the question, you have to scan in pdf format and upload the answer page in a format of <reg. no.><module/group no.><question no.>.pdf.

**MODULE - II**

(Answer **ANY ONE** question)

- II(1). An isometric view of a bushed bearing is shown in the figure below. Draw to full size the Left half sectional elevation looking in the direction of **F**. (15)

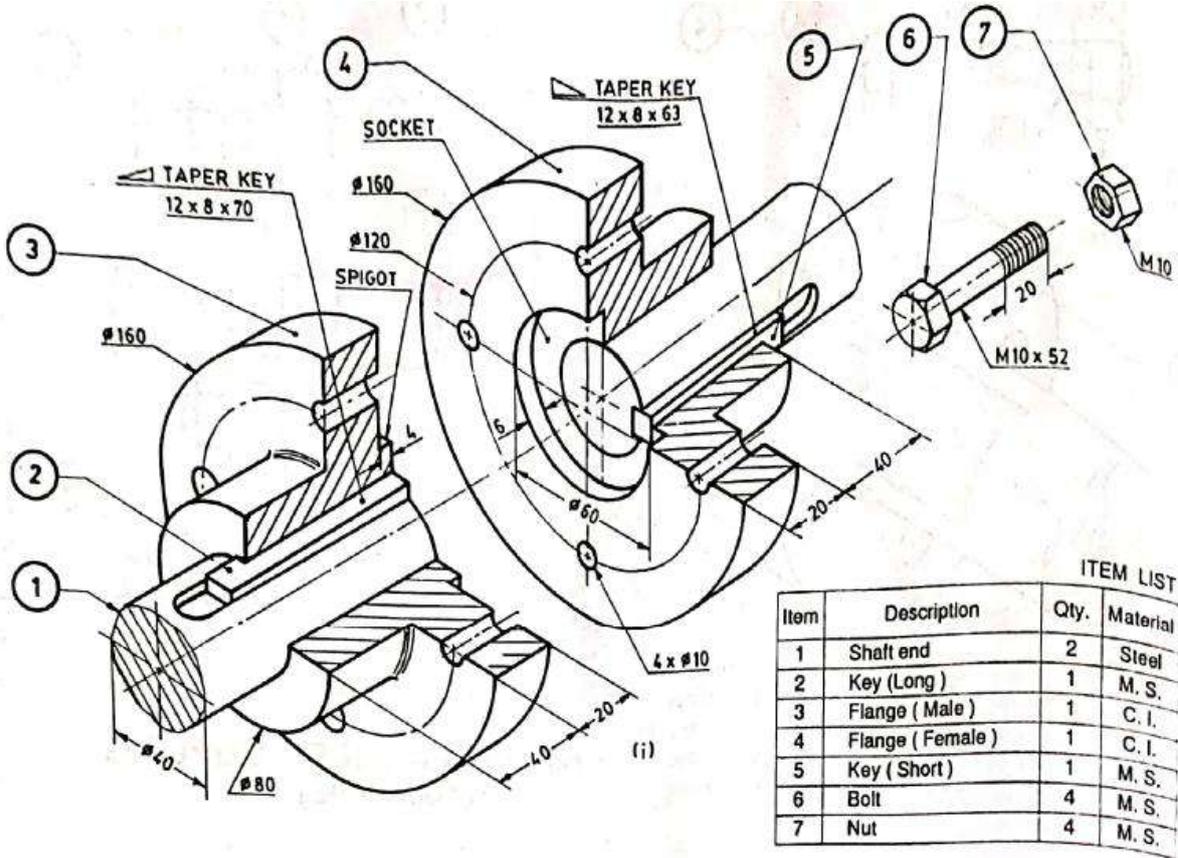


OR

(Continued to 2)

(2)

II(2). An isometric view of a flanged coupling is shown in the figure below. Assemble and Draw the top half sectional elevation of the coupling. (15)



ITEM LIST			
Item	Description	Qty.	Material
1	Shaft end	2	Steel
2	Key (Long)	1	M. S.
3	Flange (Male)	1	C. I.
4	Flange (Female)	1	C. I.
5	Key (Short)	1	M. S.
6	Bolt	4	M. S.
7	Nut	4	M. S.

**COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**B.TECH. DEGREE III SEMESTER SUPPLEMENTARY EXAMINATION IN  
MARINE ENGINEERING DECEMBER 2020**

**MRE 1306 MACHINE DRAWING**  
(2013 Scheme)

Time: 80 Minutes [for Answering and Scanning/Uploading the page of the Answer Sheet]

Max. Marks: 25

**INSTRUCTIONS**

1. You have to be available in Google Meet Video Camera throughout the examination hours.
2. Those students who are not present through Google Meet Video Camera will not be permitted to write the online examination.
3. You have to answer only one question.
4. You have to write register number, subject code and module/group number (as given in the question paper) in each page.
5. Answer may not exceed one page of an A4 size paper in a standard handwriting, as far as possible.
6. If at all an answer goes beyond one page, (due to your handwriting) another page can also be used. In such a situation, the page number should be given as 1/2, 2/2.
7. You have to put the Question Number correctly.
8. After answering the question, you have to scan in pdf format and upload the answer page in a format of <reg. no.><module/group no.><question no.>.pdf.

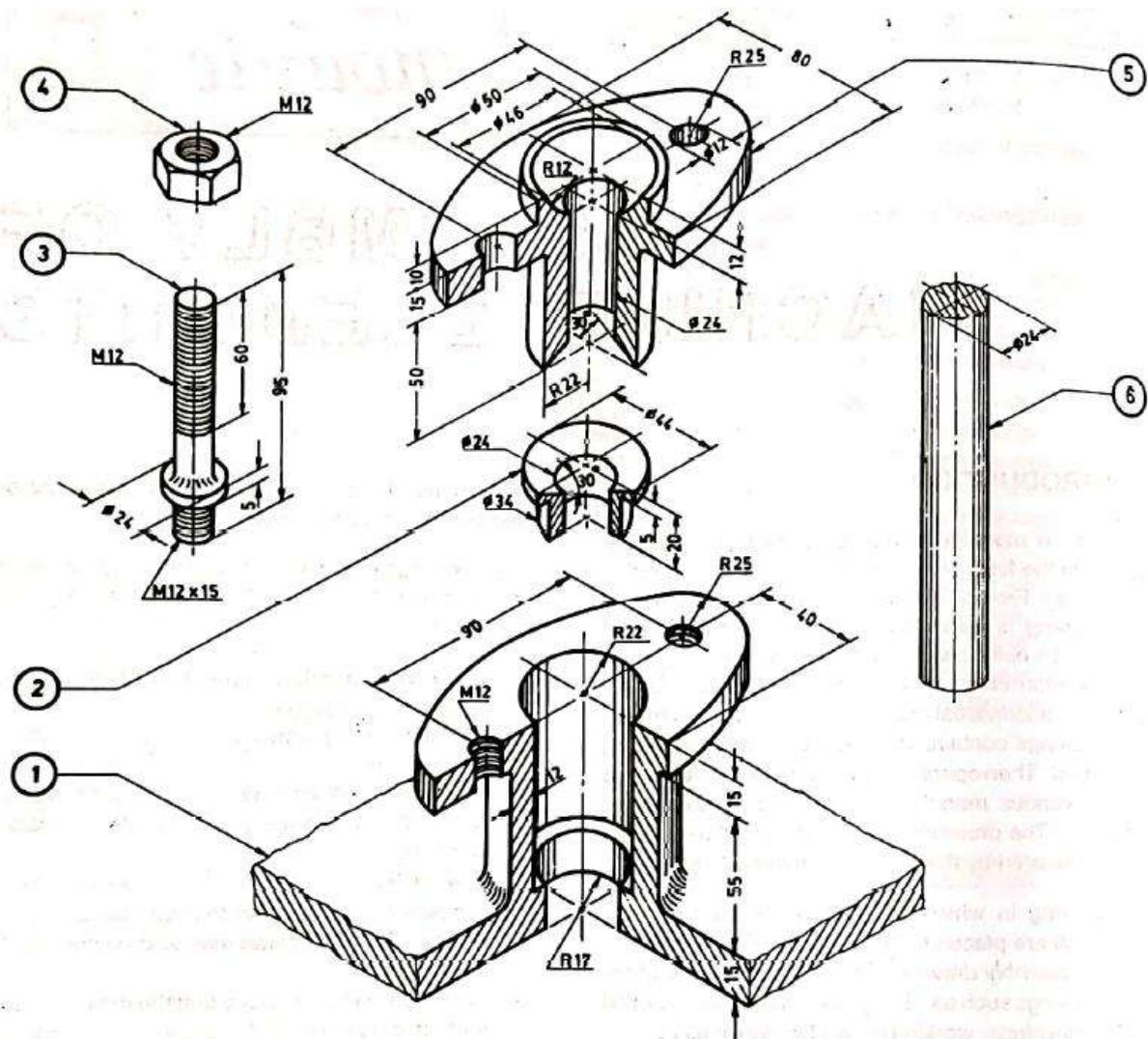
**MODULE - III**

(Answer **ANY ONE** question)

- III(1). Disassembled isometric view of a stuffing box is shown in the figure below. (25)  
Assemble the parts and draw the left half sectional elevation of the stuffing box.

**(Continued to 2)**

(2)



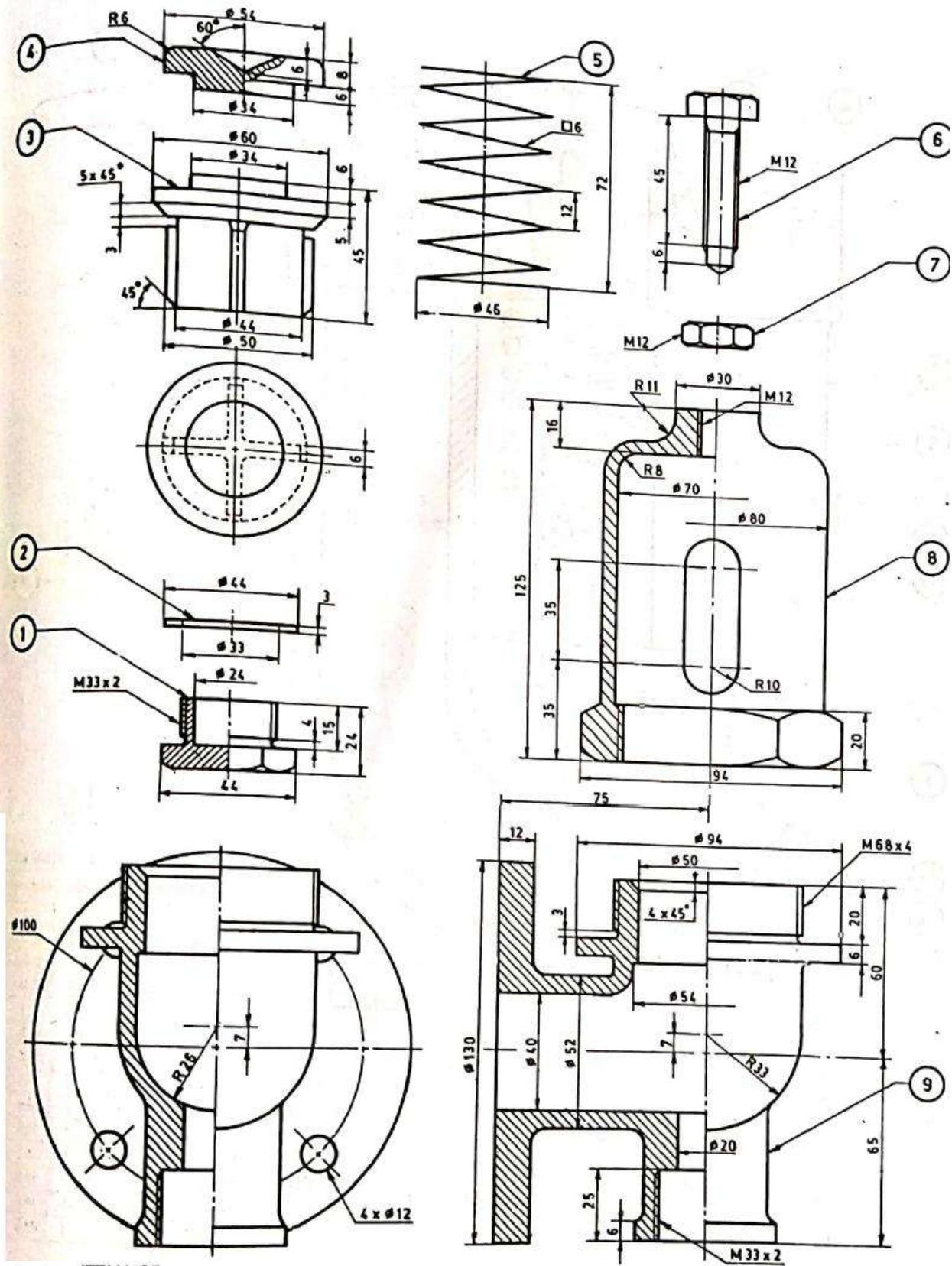
ITEM LIST

Item	Description	Qty.	Material
1	Body	1	C. I.
2	Gland bush	1	Brass
3	Stud	2	M. S.
4	Nut	2	M. S.
5	Gland	1	C. I.
6	Piston rod	1	Steel

OR

III(2). Assemble the parts given in the figure below and draw the Left half sectional elevation of Cylinder Relief valve. (25)

(Continued to 3)



ITEM LIST

Item	Description	Qty.	Material
1.	Plug screw	1	G.M.
2.	Washer	1	Aluminium
3.	Valve	1	G.M.
4.	Spring seat	1	G.M.
5.	Spring	1	Steel
6.	Screw	1	M.S.
7.	Lock nut	1	M.S.
8.	Cover	1	G.M.
9.	Body	1.	G.M.