AR13

Code: 13HS1003 **SET-1**

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
I B.Tech II Semester Supplementary Examinations, July-2016
ENVIRONMENTAL STUDIES
(Common to CE, ME, CSE & IT)

Time: 3 hours **Max Marks: 70**

PART – A

Answer all questions **[10 x 1=10M]**

1. a) Alternative energy sources
   b) Desertification
   c) Estuaries
   d) Hot spot
   e) Difference between pollutant and contaminant
   f) Bio Medical waste
   g) Acid rains
   h) EIA
   i) Vermi composting
   j) Problems of Population

PART-B

Answer one question from each unit **[5 x 12=60M]**

UNIT-I

2. a) Justify the Urgent need of public awareness on environment and the social issues? [6M]
   b) What are various components of environment? Explain the importance of stratosphere. [6M]

(OR)

3. a) Discuss the effect of modern agriculture practices on the food sources? [6M]
   b) Explain the role of an individual in conservation of Natural sources? [6M]

UNIT-II

4. a) Explain the structural features of desert ecosystem. [6M]
   b) Define Ecological Succession and Explain the search type of succession. [6M]

(OR)

5.a) Define biodiversity? Explain the values of Biodiversity [6M]
   b) Bring out the bio-geographical classification of India? [6M]

UNIT-III

6. a) Discuss adverse effects and Suggest various control measures of Air Pollution [6M]
   b) What is thermal pollution? How nuclear waste effecting humans and animals [6M]

(OR)

7. a) Classify solid waste and Explain various methods of disposal of solid waste. [6M]
   b) Discuss in detail disaster management practices? [6M]

UNIT-IV

8. a) What is sustainability? How the resources should be managed to attain sustainability? [6M]
   b) What is watershed? Discuss the objectives and practices of watershed management? [6M]

(OR)

9. a) Discuss the constitutional provisions in India for protection of environment? [6M]
   b) Suggest various water conservation techniques that can be practiced by individuals. [6M]

UNIT-V

10. a) Discuss Environment verses Human health? [6M]
    b) Write a note on demographic transition? [6M]

(OR)

11. a) Make a brief document on the problems related to urban slums. [6M]
    b) Justify the importance of maintenance of eco- Park. Explain with an example any Local eco-park. [6M]

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CODE: 13ME2012 SET-2

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
II B.Tech II Semester Supplementary Examinations, July, 2016
MACHINE DRAWING
(MECHANICAL ENGINEERING)

Time: 3 Hours **Max Marks: 70**

PART-A **[2x15=30M]**

Answer Any Two Questions, Each Question Carries 15 Marks

1 Draw (i) Half sectional view from the front, top half in section and (ii) Half sectional view from the side, left half in section, of a split-muff coupling, indicating proportions to connect two shafts, each of diameter 50 mm.

2. Sketch the following forms of nuts, with proportions marked:

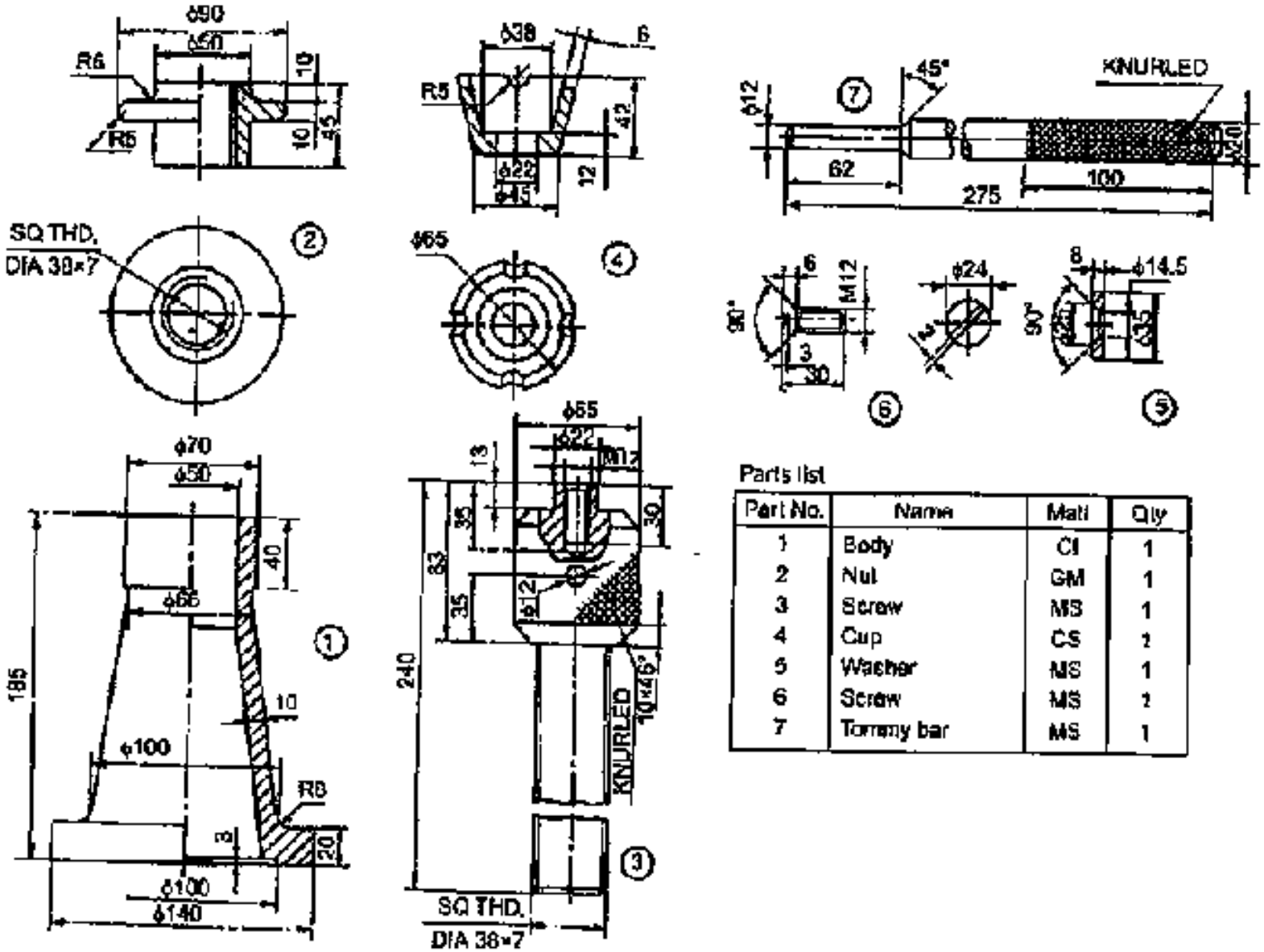
(i) Capstan nut (ii) Ring nut.

3. Draw (i) Sectional view from the front and (ii) View from above, of the Double riveted, double strap, chain butt riveted joint, to join plates of thickness 10 mm.

PART-B **[1x40=40M]**

Compulsory Question Carries 40 Marks

4. Assemble all parts of the screw jack, shown in Fig. and draw the following views: (i) Half sectional view from the front, and (ii) View from above.



Parts list

Part No.	Name	Matl	Qty
1	Body	CI	1
2	Nut	GM	1
3	Screw	MS	1
4	Cup	CS	1
5	Washer	MS	1
6	Screw	MS	1
7	Tommy bar	MS	1

Screw jack

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CODE: 13CS2005 SET-1

ADITYA INSTITUTE OF TECHNOLOGY AND MANAGEMENT, TEKKALI
(AUTONOMOUS)
II B.Tech II Semester Supplementary Examinations, July, 2016

SOFTWARE ENGINEERING
(COMMON TO CSE & IT)

Time: 3 Hours **Max Marks: 70**

PART-A

ANSWER ALL QUESTIONS **[1 x 10 = 10 M]**

1. a) Explain Software Myths?
   b) Define Process Pattern.
   c) Explain phases of the unified process?
   d) What are various phases of SDLC?
   e) Define cohesion and Coupling?
   f) Explain Unit Testing?
   g) Define Cyclomatic Complexity?
   h) What is V&V?
   i) Explain Regression Testing?
   j) Define Function Point?

PART-B

Answer one question from each unit **[5x12=60M]**

UNIT-I

2. a) Describe in detail about personal and team process models. [6M]
   b) Compare the waterfall, incremental process and evolutionary process models with respect to methodology, advantages and disadvantages. [6M]

(OR)

3. a) Define Software Engineering and write about characteristics of Software Engineering? [6M]
   b) Explain the various CMMI levels. [6M]

UNIT-II

4. a) What are the differences between the functional and non functional requirements? [6M]
   b) Write short notes on the following: [6M]
      i) Context models
      ii) Behavioral models

(OR)

5. a) What is software requirements document? [6M]
   b) Explain briefly Requirements elicitation and analysis? [6M]

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CODE: 13CS2005 SET-1

UNIT-III

6.	a)	What are the characteristics of a good design? Explain in detail.	[6M]
	b)	What are the fundamental design concepts? Discuss.	[6M]
		(OR)	
7.	a)	Discuss the classification of architectural styles.	[6M]
	b)	Explain about golden rules in interface design.	[6M]

UNIT-IV

8.	a)	What is the overall strategy for software testing?	[6M]
	b)	Explain various types of Software Metrics.	[6M]
		(OR)	
9.	a)	What is meant by integration testing? Discuss about Top-down integration and Bottom-up integration.	[6M]
	b)	Distinguish between Black-Box testing and white-box testing	[6M]

UNIT-V

10.	a)	Explain about statistical software quality assurance.	[6M]
	b)	Describe about ISO 9000 quality standards.	[6M]
		(OR)	
11.	a)	When do we conduct the Formal Technical Reviews? What are the guide lines?	[6M]
	b)	Explain RMMM Plan	[6M]

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