

B.TECH. DEGREE EXAMINATION, MAY 2018

II B.Tech. II Semester
SOFTWARE ENGINEERING
(Computer Science & Engineering)

Time : 3 hours

Max. Marks :60

Answer FIVE Questions, Choosing ONE Question from each section
All Questions carry equal marks

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SECTION - I

- 1 (a) Explain briefly Prescriptive and Waterfall models. Explain the advantages and disadvantages of these models.
(b) Compare Incremental Model with Concurrent Development Model.
- 2 (a) Explain briefly personal and team process models. What are the advantages and limitations of these models.
(b) What are the main features of Rational Unified Process (RUP) model? Compare and contrast RUP with spiral model.

SECTION - II

- 3 (a) Explain about Eliciting Requirements.
(b) Write briefly about Building the Analysis Model.
- 4 (a) What is meant by requirement process? Discuss
(b) Write a short note on validation of requirements.

SECTION - III

- 5 (a) Discuss Design Model in Software Engineering.
(b) Write a short note on Pattern – Based Software Design.
- 6 (a) In an object-oriented implementation, mostly classes are coded. Then during design, what is the role of dynamic modeling using UML?
(b) Explain design concepts in software engineering?

SECTION - IV

- 7 (a) Outline about Designing Class – Based Components.
(b) Summarize briefly about Designing Conventional Components.

- 8 (a) What is the relationship between an architecture and module-level design?
(b) What is meant by sequence diagram? Explain with example.

SECTION - V

- 9 (a) Discuss briefly about Validation Testing and Object-oriented testing methods.

- 10 (b) What are the different levels of testing and the goals of the different levels?
Explain.
(b) Explain about white box testing? What is the quality or reliability of software after testing is completed?

Code : 13ME2202

B.TECH. DEGREE EXAMINATION, MAY 2018

II B.Tech. II Semester

MACHINE DRAWING
(Mechanical Engineering)

Time: 3 hours

Max. Marks: 60

*Any dimensions not clear or not given may be suitably
Assumed or scaled from the drawing*

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SECTION - I

- 1 (a) Draw 2 views of a hexagonal bolt of 30mm diameter and 100 mm long (thread length = 50 mm) and show all other dimensions using proportions.
(b) Draw the front view and top view of a castle nut.
- 2 (a) Draw the profile of ISO metric thread and mention proportions in terms of pitch.
(b) Draw the sectional front view of a Gib head key in a shaft & hub.

SECTION - II

- 3 Draw the front view and side view of a flanged coupling to connect two shafts of 30 mm diameter each and show all other dimensions obtained from proportions.
- 4 Draw FV and TV of a double riveted double strap butt joint (zig-zag type) to connect two plates of 9 mm thick and also find diameter of rivet, pitch, margin, row pitch, diagonal pitch and length of joint.

SECTION - III

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Assemble the parts of a stuffing box shown in Fig.1 below and draw the Full sectional front view and top view. Table 1 below gives the details of the parts.

Table.1

Part No.	Name of Part	Quantity	Material
1	Gland	1	C.I.
2	Gland bush	1	Brass
3	Stuffing box	1	C.I.
4	Neck bush	1	Brass
5	Studs and nuts	3	C-30

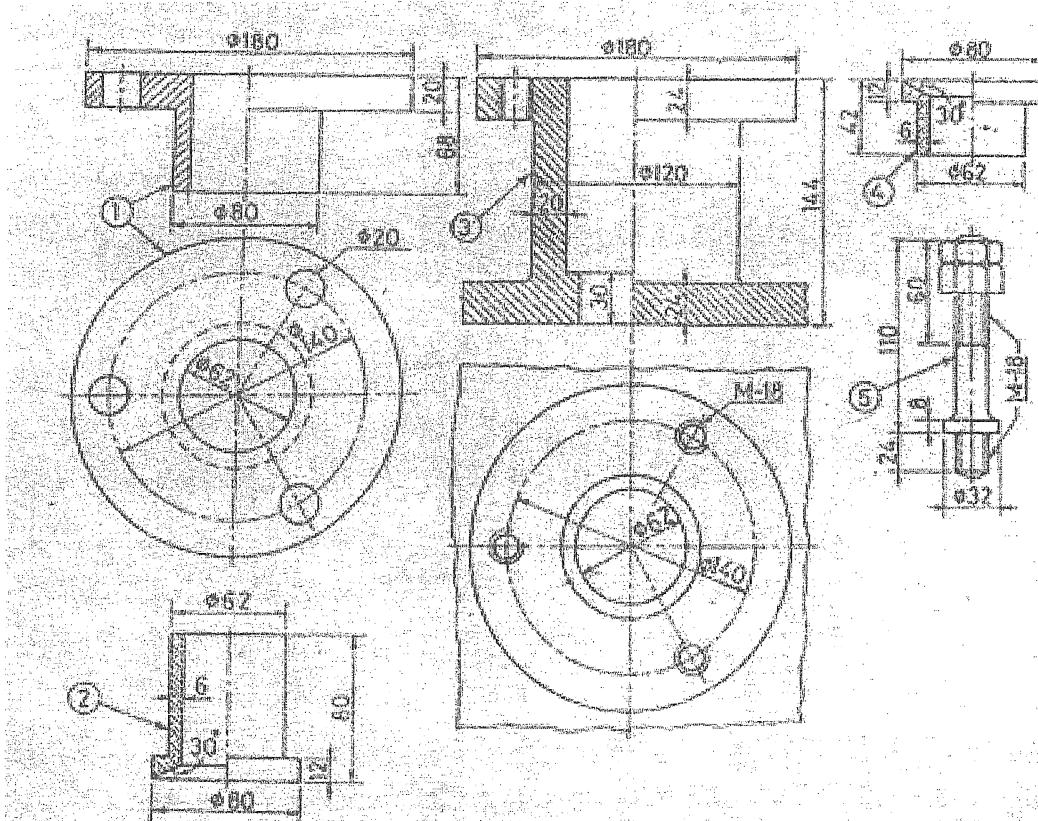


Fig.1. Stuffing Box details

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Prepare part drawings for the eccentric assembly shown in Fig.2 showing details of tolerances and fits required.

Part No.	Name of Part	Quantity	Material
1	Straps(in two parts)	1	C.I.
2	Sheave	1	C.I.
3	Shim	2	Brass
4	Bolts and nuts	2	C-30

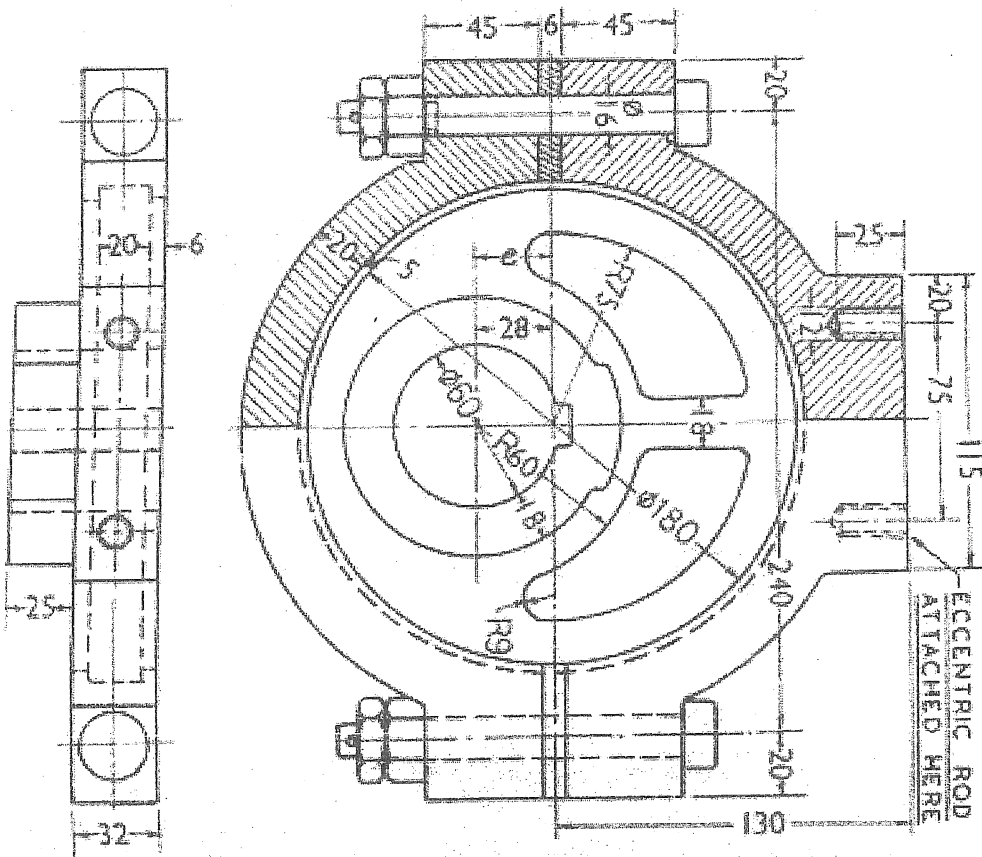


Fig.2. Eccentric assembly

