

No. of Printed Pages : 4

221732

Roll No.

3rd Sem / Mechanical Engg., Mech (T&D)

Subject:- Mechanical Engg. drawing-II

Time : 3Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which type of coupling allows for parallel axis offset between two shafts
a) Rigid Coupling b) Oldhams Coupling
c) Protected Coupling d) Flexible Coupling
- Q.2 The gear which has teeth parallel to axis of rotation is called
a) Bevel gear b) Spur gear
c) Worm gear d) Helical gear
- Q.3 _____ is a component used to locate the workpiece and guide the tool
a) Clamp b) Holder
c) Jig d) Fixture
- Q.4 _____ gears are used to transmit power between parallel shafts
a) Spur gear b) Helical gear
c) Bevel gear d) Worm gear
- Q.5 Protected coupling is which type of coupling?
a) Rigid b) Flexible
c) Both a and b d) None of the above
- Q.6 What is measured size of a finished part?
a) Dimensioned size b) Production size
c) Basic size d) Actual size

(1)

221732

SECTION-B

Note: Objective type questions. All questions are compulsory. (6x1=6)

- Q.7 Define limit.
Q.8 Universal coupling joins two shafts at _____.
Q.9 Define unilateral Tolerance.
Q.10 _____ is the innermost part of the gear teeth.
Q.11 Name any two types of pipe joints.
Q.12 In _____ fit, the largest shaft is always smaller than the smallest hole.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Explain with a line diagram Upper deviation, lower deviation and fundamental deviation.
Q.14 Draw the free hand sketch of front view of Oldhams coupling.
Q.15 Explain the function/applications of plummer block and give the material of its parts.
Q.16 Name various types of connecting rod and their functions. Also tell the process of manufacturing connecting rod.
Q.17 Enlist the various advantages of ball bearings, and roller bearings.
Q.18 Explain the function of drill jig, its material and give its types.
Q.19 Draw the free hand front view of flywheel. Give its function.
Q.20 Draw a free hand sketch of blow off cock and give its function.
Q.21 Write the main function and parts of piston with a simple diagram.

(2)

221732

Q.22 Write the main function and parts of foot step bearing.

SECTION-D

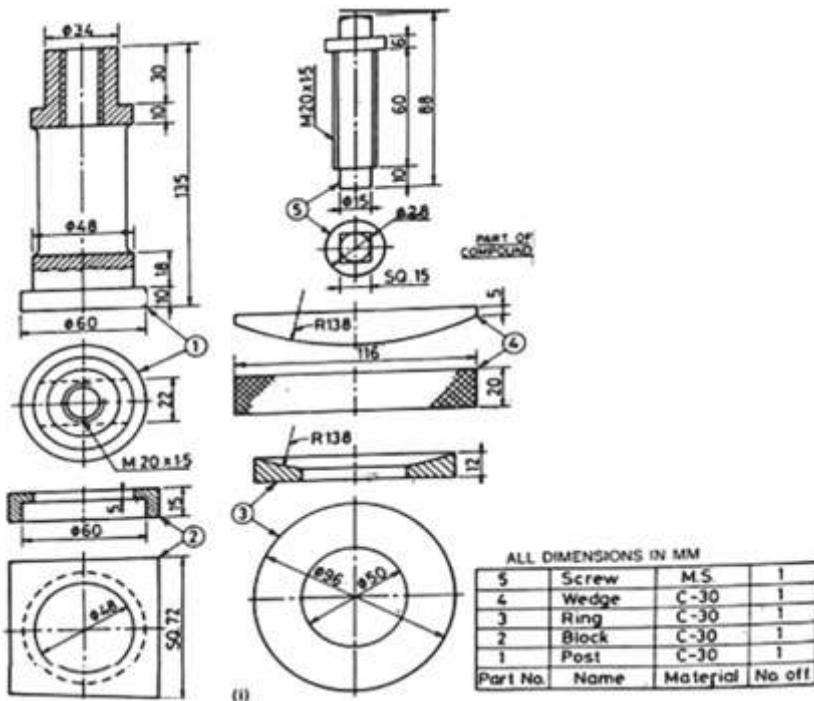
Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 What is a Gear? Explain types of a gears with the help of free hand sketches.

Q.24 Assemble the tool holder assembly and draw the following views:

- i) front view half sectioned
- ii) top view

- Dimension units may be taken in mm.
- Assume suitable dimensions as required if not specified or not visible clearly in the figure.



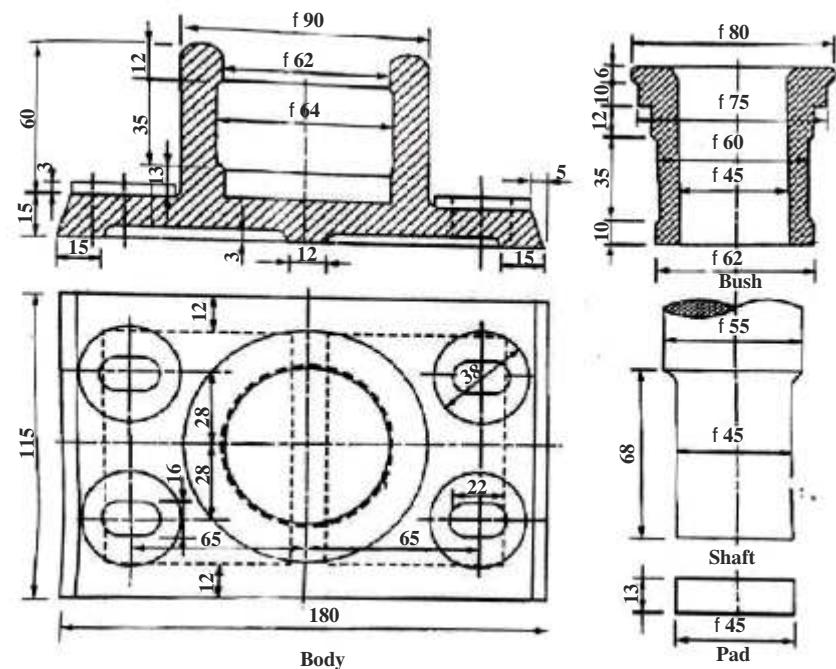
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221732

Q.25 Assemble the footstep bearing and draw the following views:

- i) Front view half sectioned
- ii) top view

- Dimension units may be taken in mm.
- Assume suitable dimensions as required if not specified or not visible clearly in the figure.



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221732