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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

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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.

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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)

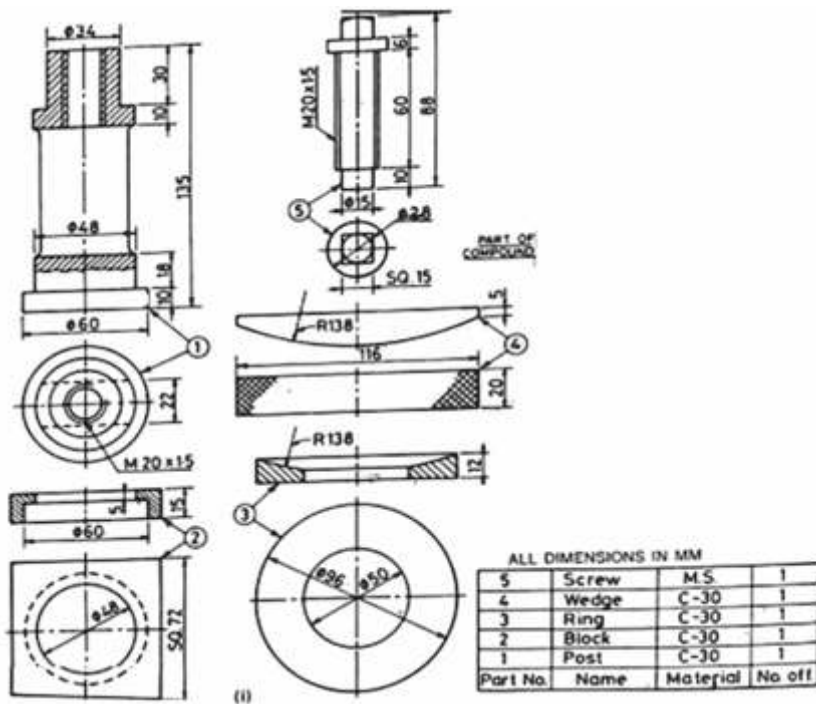
Q.23 What is a Gear? Explain types of a gears with the help of free hand sketches.

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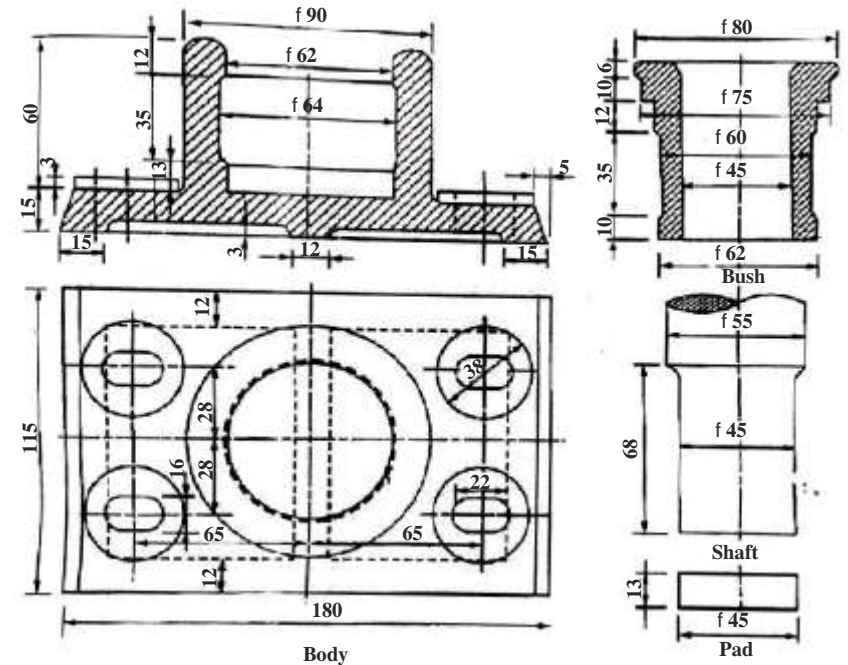
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Q.25 Assemble the footstep bearing and draw the following views:

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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