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Roll No. ....

221732

**3rd Sem / Mechanical Engg., Mechanical  
(Tool & Die Design)**

**Subject : Mechanical Engineering Drawing - II**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

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

Q.1 What type of connection is coupling?

- a) Permanent connection
- b) Temporary connection
- c) It can't connect
- d) A connection which can be modified

Q.2 The relation between mating parts is called \_\_\_\_\_

- a) Connection                  b) Fits
- c) Joints                        d) Link

Q.3 A \_\_\_\_\_ bearings supports the load acting along the axis of the shaft.

- a) Thrust                      b) Radial
- c) Longitudinal                d) Transversal

Q.4 With the use of Jigs and fixtures total cost of production

- a) Increases                    b) Decreases
- c) Remains same
- d) Jigs are not related to production process

(1)

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Q.5 Which of the following is not true about gears?

- a) Positive drive
- b) Constant velocity ratio
- c) Transmit large power
- d) Bulky construction

Q.6 Which of the following does not form the important part of the screw jack?

- a) Frame                        b) Nut
- c) Cup                            d) Coupling

**SECTION-B**

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

Q.7 Enlist various Need of limit.

Q.8 Define Shaft basis system.

Q.9 Name the Type of pipe Joints. Explain any one.

Q.10 Minimum interference is the magnitude of the difference between \_\_\_\_\_ size of the hole and the \_\_\_\_\_ size of the shaft.

Q.11 Efficiency of conventional power screw is greater than the efficiency of recirculating ball screw

- a) True                         b) False

Q.12 Gear drive don't require precise alignment of shafts

- a) True                         b) False

**SECTION-C**

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

Q.13 Enlist the various advantages of screw jack.

(2)

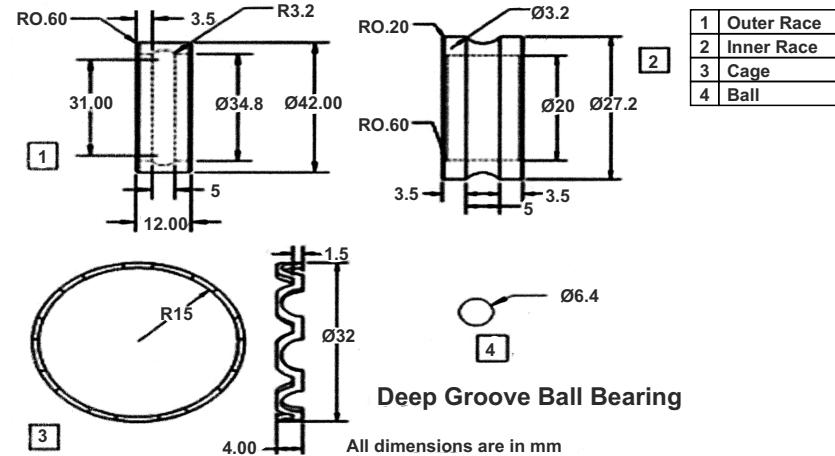
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- Q.14 Explain the working of blow off cock.
- Q.15 What is a pipe joint? Explain it various types.
- Q.16 Draw the free hand sketch of a wall bracket.
- Q.17 Write a short note on Flanged pipe.
- Q.18 Differentiate between the working of Universal coupling and Oldham coupling.
- Q.19 Define the following
- Allowance
  - Deviation
  - upper deviation
  - lower deviation
- Q.20 What is a Plummer Block? List its various applications.
- Q.21 Draw the free hand sketch of Crank shaft.
- Q.22 Explain working of bushed bearing, also write its applications.

### SECTION-D

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

- Q.23 Explain Nomenclature of gears with the help of neat sketch.
- Q.24 Assemble the Roller Bearing as shown in figure below and draw
- Front view
  - Side view



- Q.25 Assemble the Connecting rod as shown in figure below and draw

- i) Front view and Bill of material

