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**4483****BOARD DIPLOMA EXAMINATION, (C-14)****JUNE-2019****DME - FOURTH SEMESTER EXAMINATION****PRODUCTION DRAWING PRACTICE**

Time: 3 Hours

Max. Marks : 60

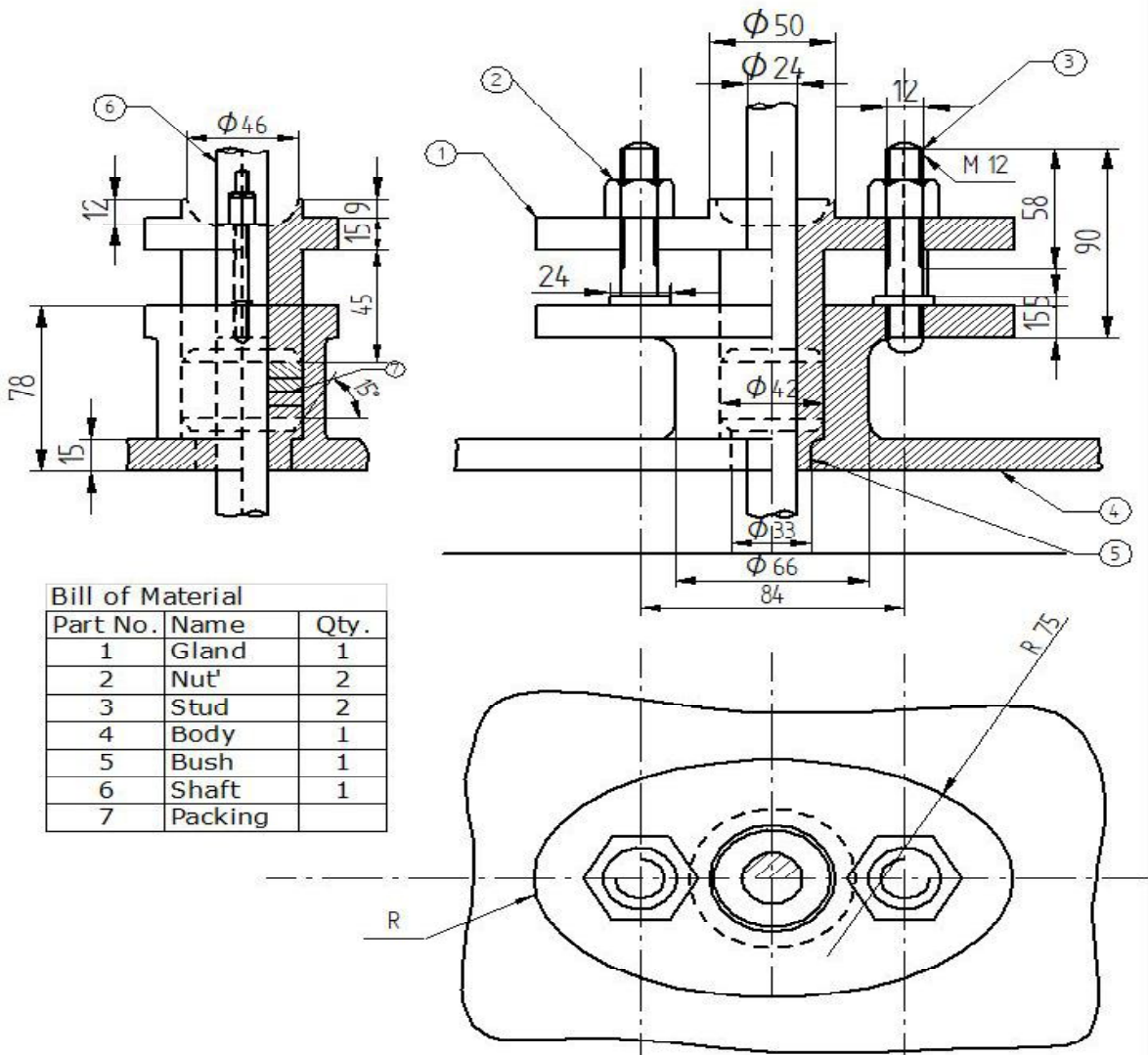
**PART -A****4x5=20M**

- Instructions:** 1) Answer **all** questions. Each question carries **five** marks.  
2) Draw the following neatly with proportionate dimensions.  
3) Use of production drawing tables are allowed.
- 1) Draw the tolerance character symbols for the following:  
(a) Cylindricity (b) Flatness (c) Angularity  
(d) Parallelism (e) Run out.
  - 2) Draw the machining symbols for the following.  
(a) To indicate the surface considered  
(b) If the removal of material is not permitted  
(c) If the removal of material by machining is required  
(d) When special surface characteristics have to be indicated  
(e) If the same surface Roughness is required on all the surface of a part.
  - 3) Indicate the meaning of following symbols/ specifications.  
(a) Square Bolt M12x40N, IS: 2585  
(b) Stud BM20x60  
(c) Splines 6x23x26 IS: 2327  
(d) Solid Taper Pin 15x60  
(e) O-Ring, 10/2.5, Viton

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- 6) (a) Study the given assembly of stuffing box and draw part drawing of each component.  
 (b) List out the materials of the components.  
 (c) Select suitable fit for assembly of body and bush, bush and shaft  
 (d) Prepare process sheet for gland.



Bill of Material		
Part No.	Name	Qty.
1	Gland	1
2	Nut'	2
3	Stud	2
4	Body	1
5	Bush	1
6	Shaft	1
7	Packing	