

с09-м_407

## 3507

## BOARD DIPLOMA EXAMINATION, (C-09) OCT/NOV—2017 <br> DME-FOURTH SEMESTER EXAMINATION

## PRODUCTION DRAWING

Time : 3 hours ]
[ Total Marks : 60

## PART—A

Instructions : (1) Answer all questions.
(2) Each question carries five marks.

1. Calculate the values of clearance/interference, hole tolerance and shaft tolerance for a basic size of 40 mm , and also determine the type of fit for the tolerances indicated as H 8/u 7 .
2. Draw the conventional sysmbols for the following :
(a) Knurling
(b) Bearing
(c) Splined shaft
(d) Spur gear
(e) Semielliptical leaf spring
3. Draw the symbols for the following :
(a) Flatness
(b) Cylindricity
(c) Angularity
(d) Profile of any surface
(e) Run-out
4. Write the surface foughness values for the following :
(a) Hot rolling
(b) Filing
(c) Honing
(d) Sand casting
(e) Drilling

> PART—B

Instructions: (1) Answer any one question.
(2) Priority should be given to the accuracy, neatness and dimensioning.
(3) Choose suitable scale.
5. Study the given assembly drawing of universal coupling :
(a) Draw the component drawings for all parts.
(b) Indicate geometrical tolerances wherever needed for all parts.
(c) Indicate the recommended surface roughness values of all parts.
(d) Mention the type of fits between mating parts 1-2 and 1-3.
(e) Prepare the process sheet for centre block. $20+5+5+2+8=40$

6. Study the given assembly drawing of drill jig.
(a) Draw the component drawings (Part No. 1, 2, 3, 7 and 8), selecting suitable tolerances and fits.
(b) Prepare the process sheet for 'drill bush'.
(c) Write the material list for all the parts.
(d) Indicate the surface values on components. $25+5+5+5=40$


