

CO9-M-407

3507

BOARD DIPLOMA EXAMINATION, (C-09) OCT/NOV-2017

DME—FOURTH SEMESTER EXAMINATION

PRODUCTION DRAWING

Time: 3 hours [Total Marks: 60

PART—A

 $5 \times 4 = 20$

 $1 \times 5 = 5$

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: $1 \times 5 = 5$
 - (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

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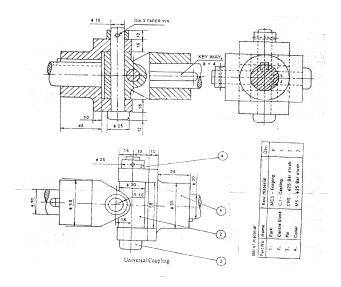
- **4.** Write the surface foughness values for the following : $1 \times 5 = 5$
 - (a) Hot rolling
 - (b) Filing
 - (c) Honing
 - (d) Sand casting
 - (e) Drilling

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PART—B 40

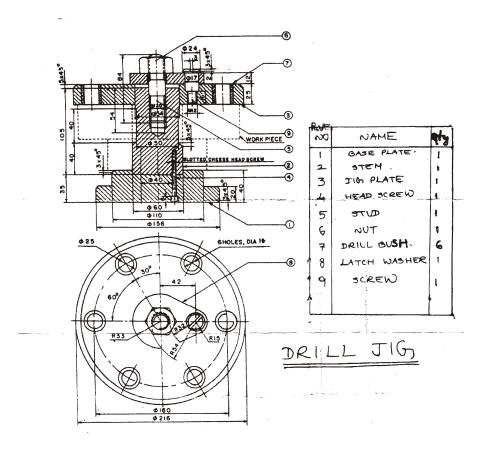
Instructions: (1) Answer any one question.

- (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



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- 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=40



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