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с16-м-**406** с-16) ADIST A.P **BOARD DIPLOMA EXAMINATION, (C-16)**

MARCH/APRIL-2018

DME—FOURTH SEMESTER EXAMIN

PRODUCTION DRAWING

Time : 3 hours]

[Total Marks : 60

PART

5×4=20

Instructions : (1) Answer all questions.

- (2) Each question carries five marks.
- neatly with proportionate (3) Draw the following dimensions.
- (4) Use of production drawing tables is allowed.
- 1. Calculate the values of the maximum and minimum limits for both shaft and hole 45 H8/d9, using the tables for tolerances and indicate the type of fit obtained. 1.

Draw the tolerance character symbols for the following :

- Flatness (a)
- (b) Cylindricity
- (c)Run-out
- (d) Position
- (e) Parallelism

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- 3. Write the surface roughness grade numbers for the following roughness values (m):
 - (a) 25

- , 0.1 4. Write the meaning of following symbols/specifications : (a) Fe 410 Cu K (b) 25C5B0 (c) Stud AM 10×30, IS : 1862-P-4.6 (d) Hex.bolt M20×12575 N, IS : 136.4 (e) Splines 6×63×28 *

S.P

PART-B

40

Instructions : (1) Answer any one question.

(2) Each question carries forty marks.

Study the given assembly drawing of the universal coupling shown in Fig. 1 :

Draw the part drawings for fork and centre block. 20 (a)

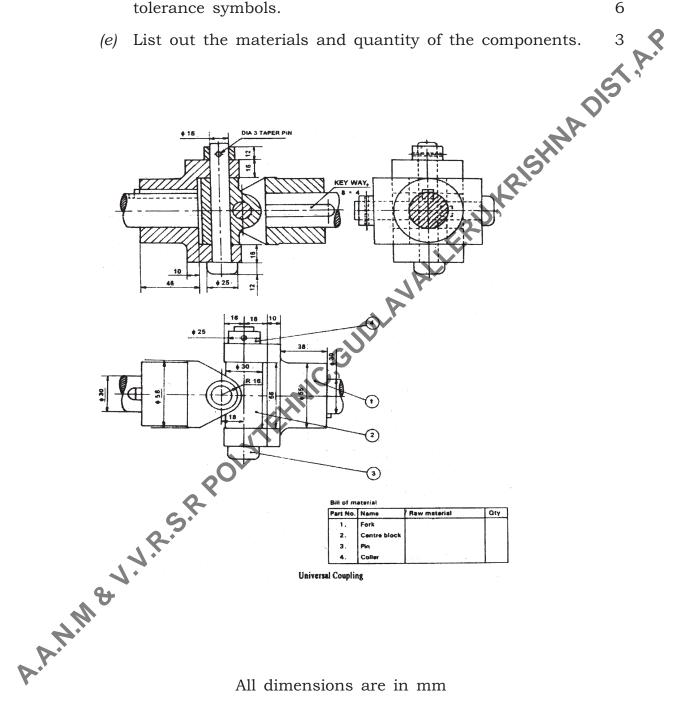
(b) Select suitable fits and tolerances.

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- Prepare the process sheet for center block made CI. (C)
- (d) Indicate the surface roughness symbols and geometrical tolerance symbols.
- (e) List out the materials and quantity of the components.



All dimensions are in mm

Fig. 1

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- 6. Study the given assembly drawing of the clapper block shown in Fig. 2.
 - (a) Draw the part drawings for clapper and tool holder. 20

 - (d) Indicate the surface roughness symbols and geometrical tolerance symbols.
 (e) List out the materials

