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BOARD DIPLOMA EXAMINATION, (C-16) MARCH/APRIL—2018

DME—FOURTH SEMESTER EXAMINATION

PRODUCTION DRAWING

Time : 3 hours]

[Total Marks : 60

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PART—A 5×4=20

Instructions : (1) Answer all questions.

- (2) Each question carries five marks.
- (3) Draw the following neatly with proportionate 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.
- 2. Draw the tolerance character symbols for the following :
 - (a) Flatness
 - (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
 - *(b)* 1.6
 - *(c)* 12.5
 - (d) 3·6
 - *(e)* 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 M20×1·2×75 N, IS : 1364-S-4·6
 - (e) Splines 6×32×28, IS : 2327

PART—B 40

Instructions : (1) Answer any **one** question.

- (2) Each question carries **forty** marks.
- **5.** Study the given assembly drawing of the universal coupling shown in Fig. 1 :
 - (a) Draw the part drawings for fork and centre block. 20
 - (b) Select suitable fits and tolerances. 4
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(c) Prepare the process sheet for center block made CI.

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- (d) Indicate the surface roughness symbols and geometrical tolerance symbols.
- (e) List out the materials and quantity of the components. 3





Universal Coupling

All dimensions are in mm



³ [Contd... WWW.MANARESULTS.CO.IN **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
(b)	Select suitable fits and tolerances.	4
(C)	Prepare the process sheet for tool holder made MS.	7
(d)	Indicate the surface roughness symbols and geometrical	

(e) List out the materials and quantity of the components. 3

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tolerance symbols.



All dimensions are in mm

Fig. 2

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