



C14-M-407

4453

**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DME-FOURTH SEMESTER EXAMINATION**

PRODUCTION DRAWING PRACTICE

Time : 3 Hours]

[Total Marks: 60

PART-A

4X5=20

Instructions :

1. Answer **All** questions.
2. Each question carries FIVE marks

1. Sketch the conventional symbols for the following components
 - a) Diamond knurling
 - b) Splined shaft
 - c) Semi elliptic leaf spring
 - d) Bearing
 - e) Bevel gear
2. Calculate the following for the assembly with basic size 60mm H7/g6
 - a) Hole tolerance
 - b) Shaft tolerance
 - c) Minimum allowance
 - d) Maximum allowance
 - e) Type of fit
3. Give the meaning of the following specifications
 - a) Hex Bolt M16 x 70 NL
 - b) Taper key 12 x 8 x 50
 - c) Ball bearing 305
 - d) Fe 470 W
 - e) 75 T 5
4.
 - a) List out any four reprographic methods used for reproducing engineering drawings.
 - b) Write a short note on “Blue print”

PART-B

40X1=40

Instructions :

1. Answer All questions.
2. Each question carries **forty** marks.
3. All Dimensions are in mm. Choose suitable scale. Assume missing data if any.

5. Study the given assembled drawing of Clapper Block shown in fig.1. and

- a) Draw component drawings for all parts. 25+3+3+3+6=40
- b) Mention the types of fits between mating parts.
- c) Indicate geometrical tolerances wherever necessary.
- d) Indicate surface roughness values to the components wherever necessary.
- e) Prepare the process sheet for Tool holder

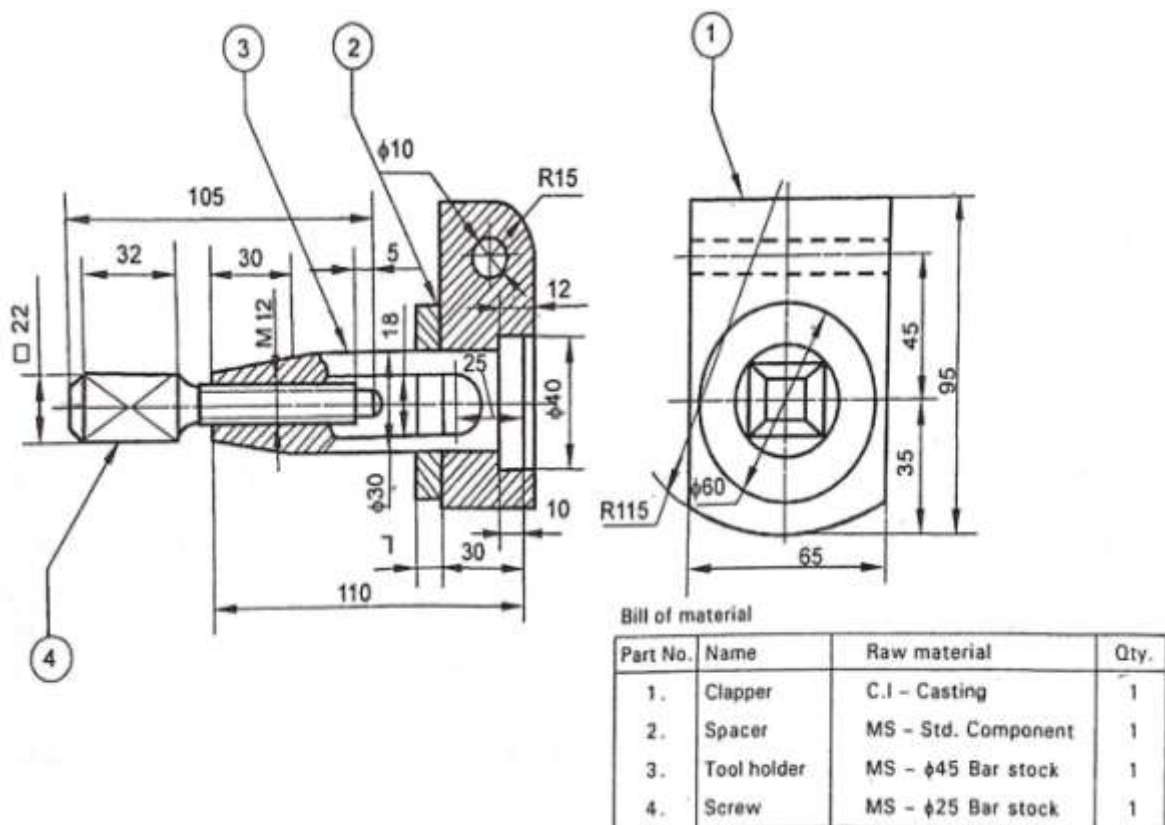
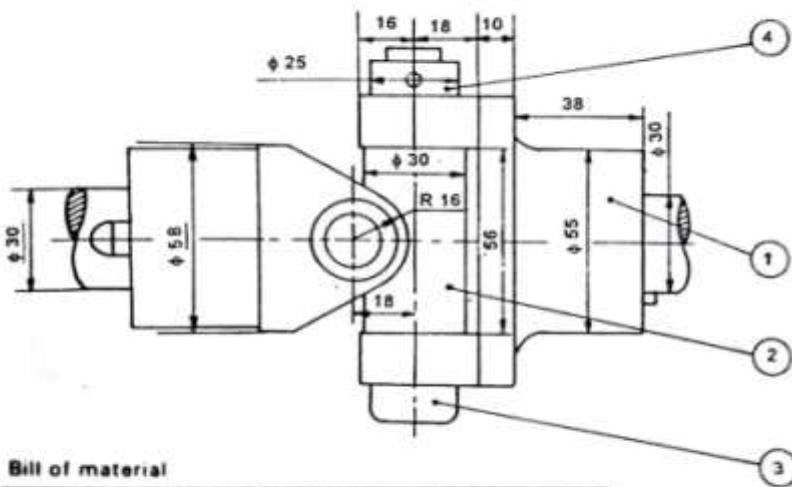
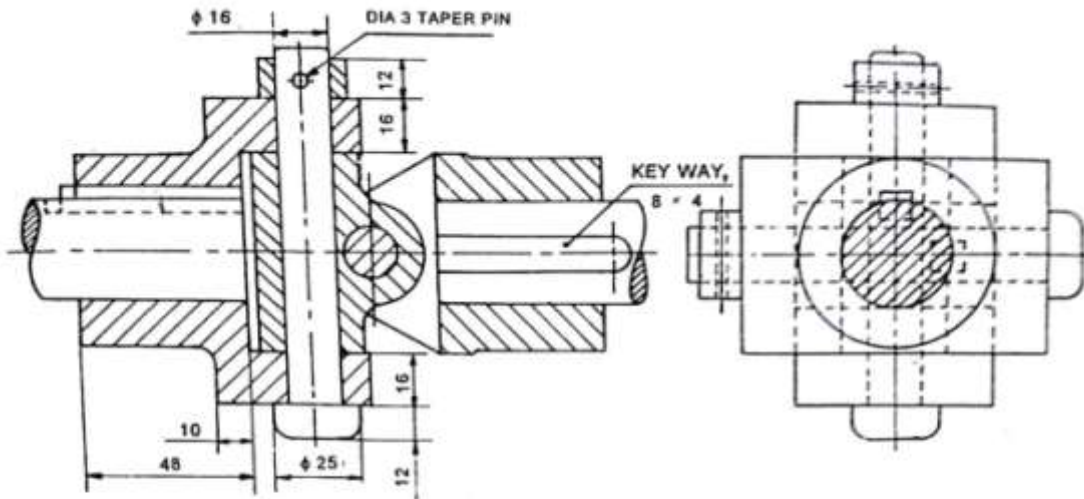


Fig.1. Clapper Block

6. Study the given assembled drawing of Universal Coupling shown in fig.2. and
- Draw component drawings for all parts. $25+3+3+3+6=40$
 - Mention* the types of fits between mating parts.
 - Indicate geometrical tolerances wherever necessary.
 - Indicate surface roughness values to the components wherever necessary.
 - Prepare the process sheet for part no.3



Bill of material

Part No.	Name	Raw material	Qty.
1.	Fork	MCS - Forging	2
2.	Centre block	C.I - Casting	1
3.	Pin	CRS - $\phi 25$ Bar stock	2
4.	Collar	MS - $\phi 25$ Bar stock	2

Fig.2.Universal Coupling
