

(Autonomous)

(ISO/IEC - 27001 - 2013 Certified)

WINTER- 18 EXAMINATION

Subject Name: Mechanical Working Drawing Model Answer

Subject Code:

22341

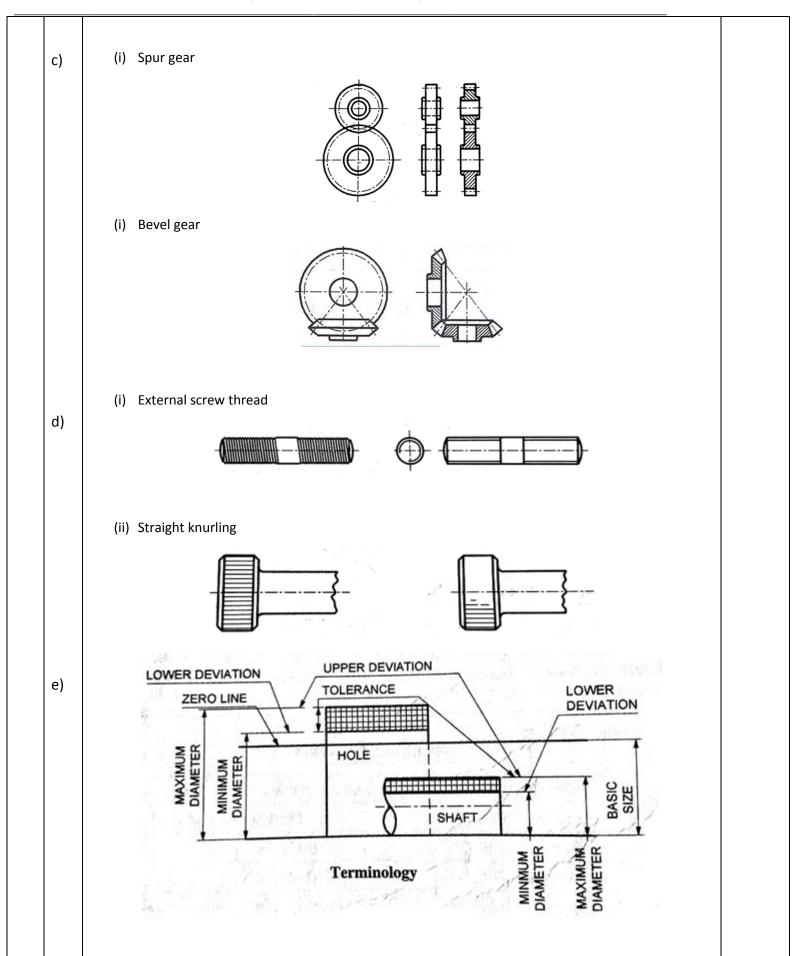
<u>Important Instructions to examiners:</u>

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills.
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

Q. Sub		Answer	
No.	Q.		Scheme
	N.		
1		Attempt any Five:	02 Mark
	a)	(i) Cylindrical helical compression spring of wire of circular cross section	
			for each
		(ii) Semi-elliptic leaf spring	
	b)	Part showing Fillet radius and chamfered edge (Any component shows chamfer and fillet radius)	
	,	2 CHAMFER 26 CHAMFER 2	



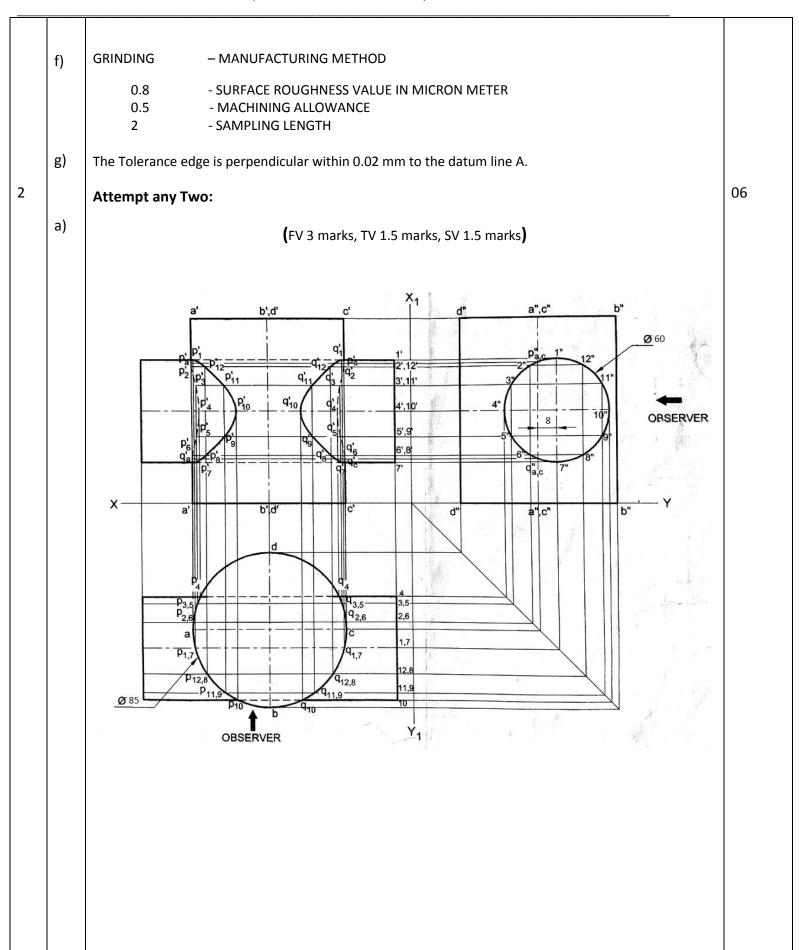
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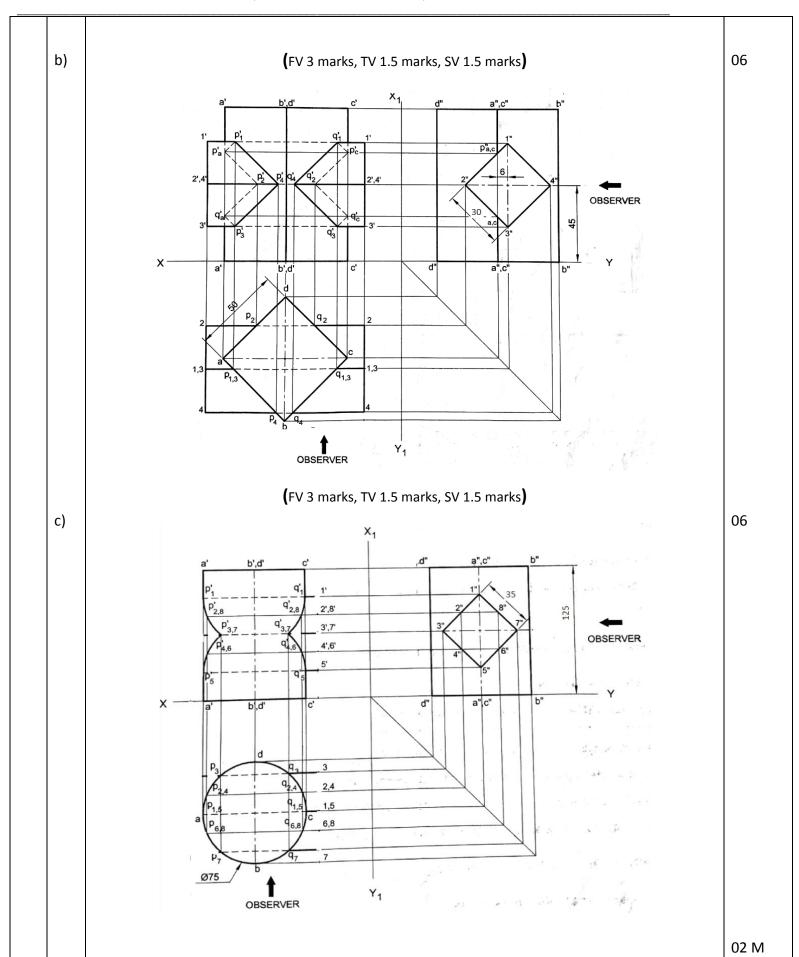
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Attempt any One:

(A)

3

a) Light press fit = H7/n6

Applications = Gears &bearing bushes, shaft & wheel assembly fixed by feather key.

b)

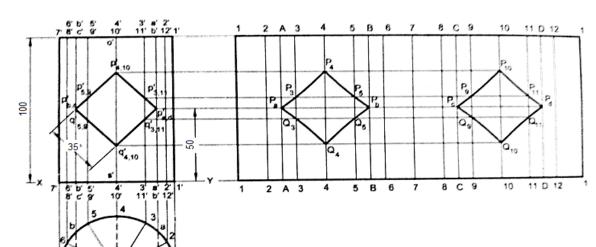
04 M arks

each

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Max. Hole size (Bush) = 25.025 mm
Min " " = 25.000 mm
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Attempt any Two: (B)

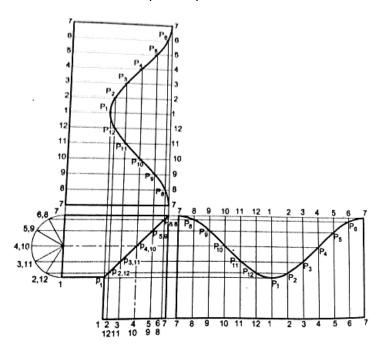
(a) Initial position 02 marks & Development 04 marks



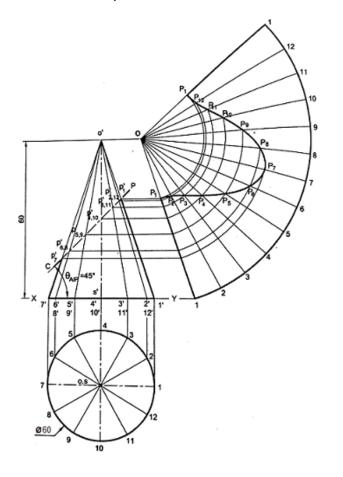
06

06

b) Initial position 02 marks & Development part A & B 04 marks each



c) Initial position 02 marks & Development 04 marks



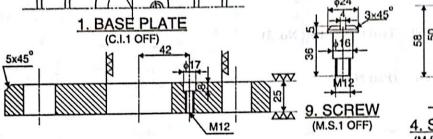
16

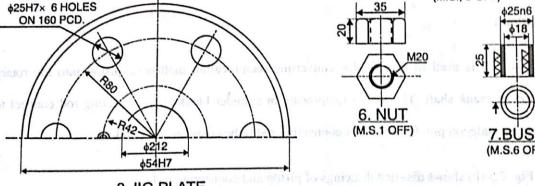
06

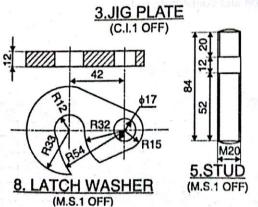
¢6×3 HOLES EQUI. SP. ON PCD. 40

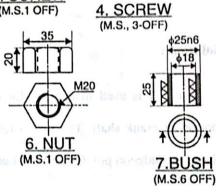
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(Autonomous) (ISO/IEC - 27001 - 2013 Certified) Attempt the following: (Any Two) (i) Base Plate & stem Sect. F.V & T.V = 08 Marks (ii) Jig plate & latch washer Sect. F.V & T.V = 08 Marks (iii) F.V & T.V of Stud, Nut, Bush and Screw = 08 Marks φ156 \$110 φ60H7 3x45 M20 110









φ6417

2, STEM (M.S.1 OFF)

φ6×3 HOLES EQUI. SP. ON

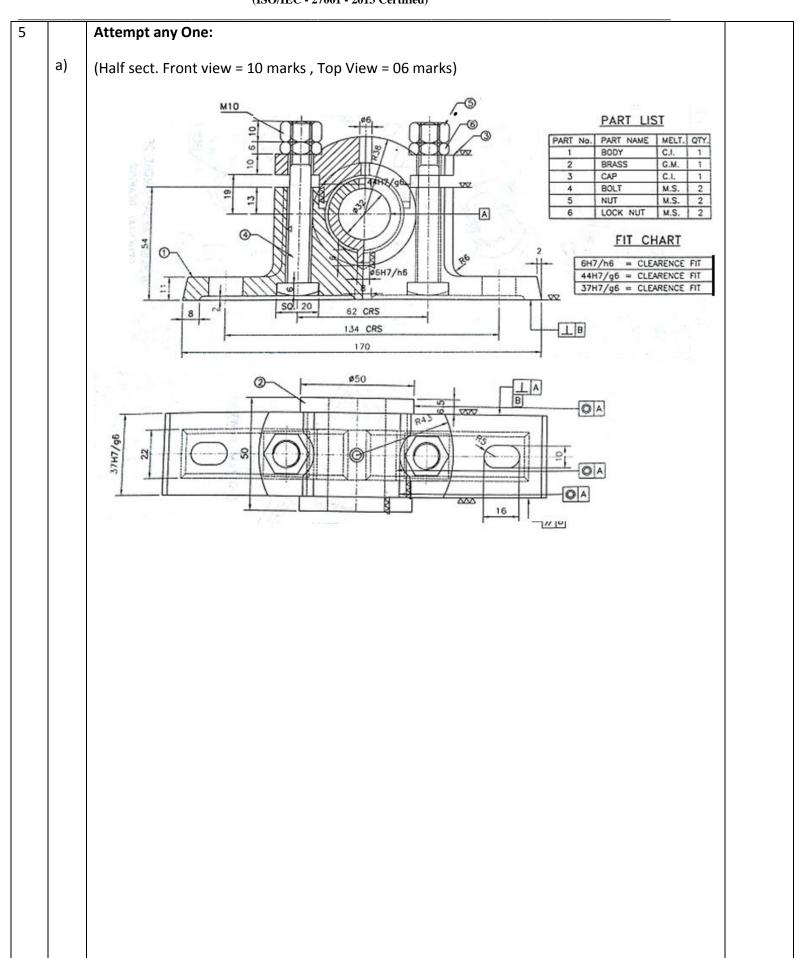
40 PCD

TOLERANCE CHART

60H7 = +0.030	54H7 = +0.030
+0.000	+0.000
60f7 = +0.030	54f7 = +0.030
+0.049	+0.049
25H7 = +0.021	25n6 = +0.028
+0.000	+0.015

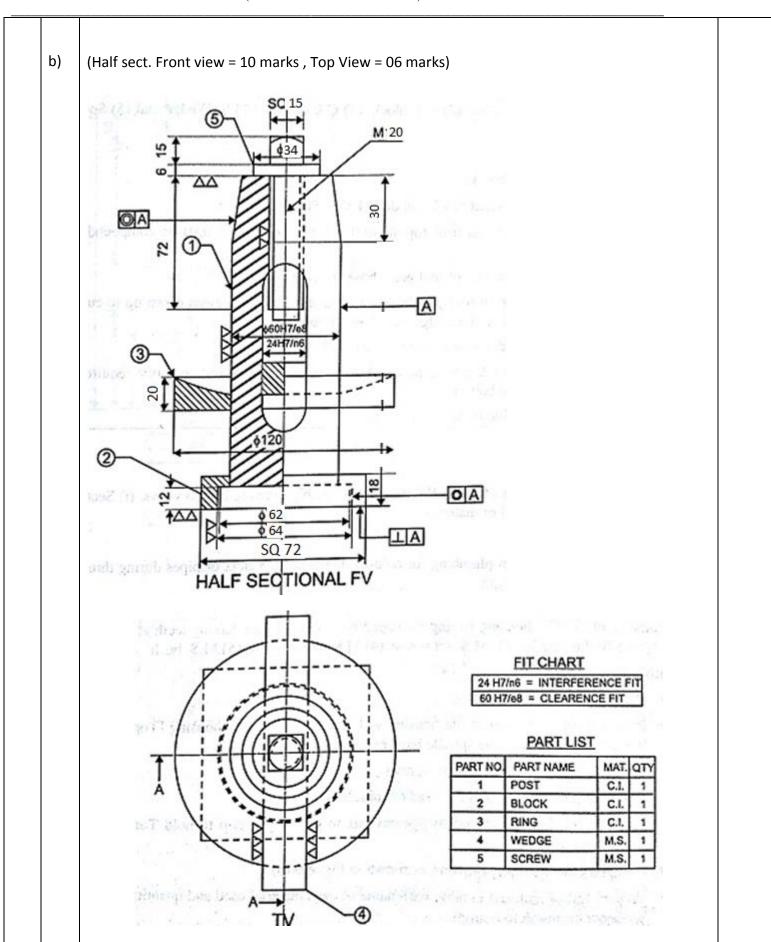
16

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Sub	Answer		Marking Scheme	
Q. N.		XXXXX	Scheme	
		70000	J I	