

(Autonomous) (ISO/IEC - 27001 - 2013 Certified)

SUMMER - 19 EXAMINATION

Subject Name: Mechanical Working Drawing Model Answer Subject Code: 22341

Important Instructions to examiners:

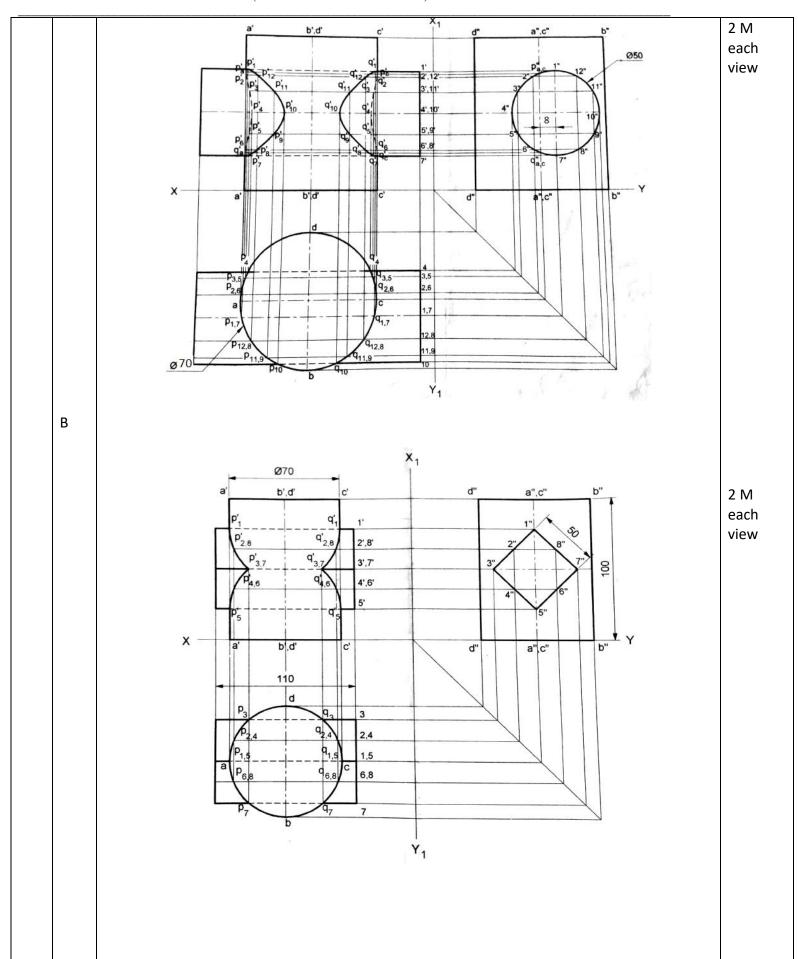
- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling 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.

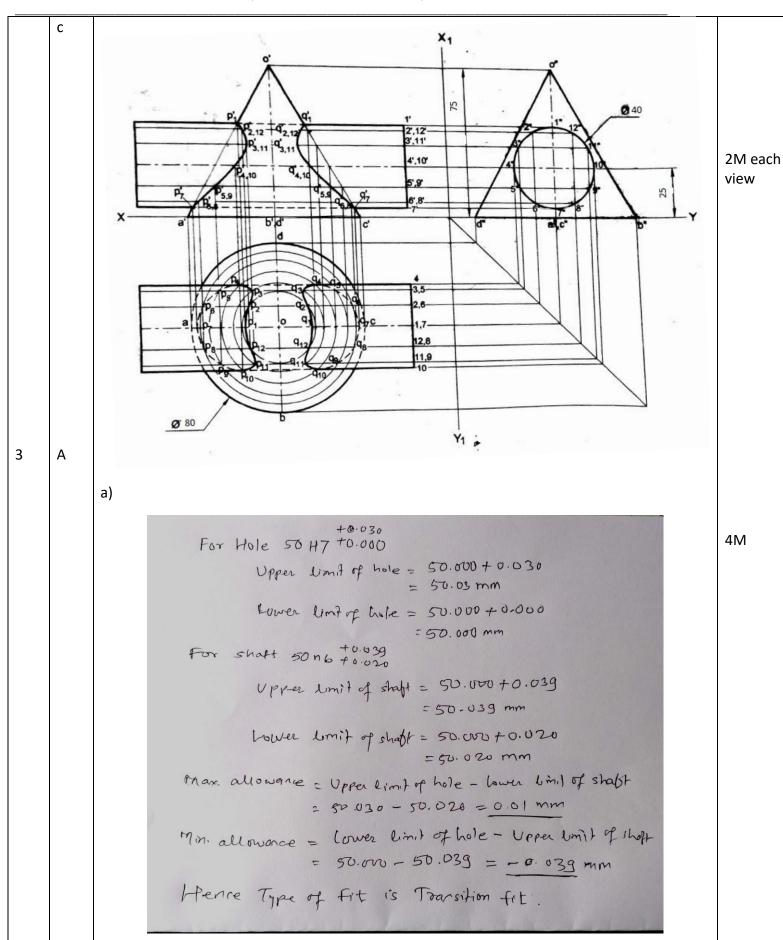
Q.	Sub	Answer	Marking
No.	Q.		Scheme
	N.		
1	а	i) I-section or Rolled section	2 M
			each
		- village	
		ii) long brake in pipe	
		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
		<u> </u>	
	В	i) Radial ribs ii)Bearings	
			/ > 1

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	С	counter bore countersunk bore		
	d	i) Spiral spring ii) Semi elliptic leaf spring with	n eyelets	
	e	i) Circularity ii) Cylindricity		
		0		
	f	GRINDING – MANUFACTURING METHOD N7 - SURFACE ROUGHNESS VALUE IN MICRON METER 5 - MACHINING ALLOWANCE		
		C- DIRECTION OF LEY		
		100 - SAMPLING LENGTH 50 – OTHER ROUGHNESS VALUE		
	G	The toleranced edge is parallel with in 0.02 mm to the datum line A The toleranced edge is perpendicular with in 0.03 mm to the datum line A		
2	а			





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b) define:

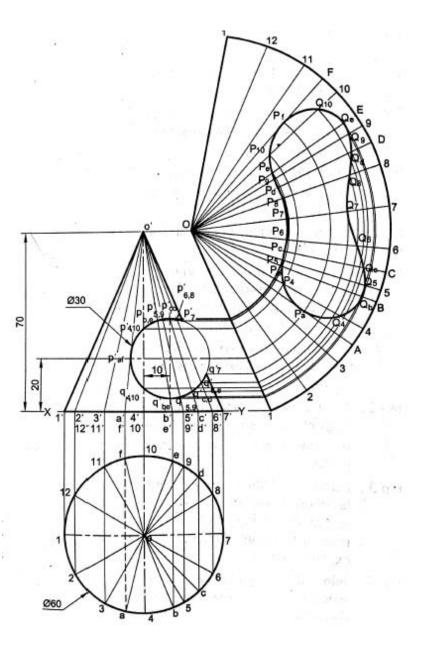
i) Allowance: is the difference between the male part dimension & female part dimension. Or Difference between the hole dimensions and shaft dimensions for any type of fit. Or maximum iterferences betweentwo parts.

1M each

- ii) Clearance: is the difference in the shaft diameter & hole diameter.
- iii) Interferance: The upper limit size of the hole is smaller or at least equal to the lower limit size of shaft
- iv) Deviation: The difference between basic size and actual size is known as deviation

i)

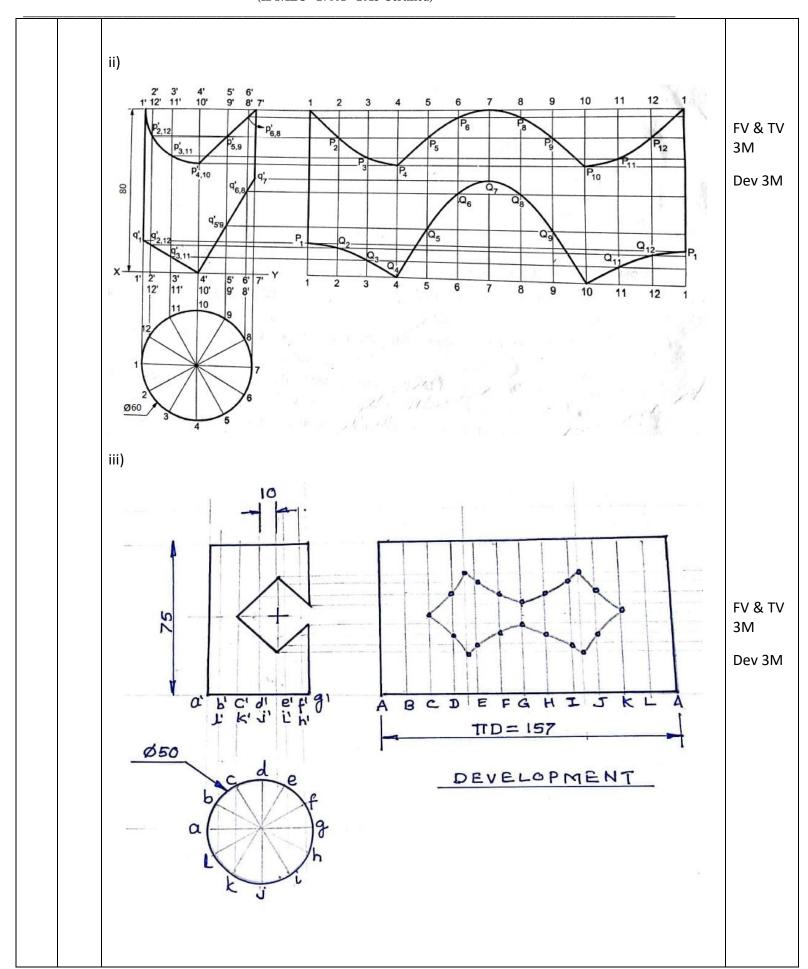
В



FV & TV 3M

Dev 3M

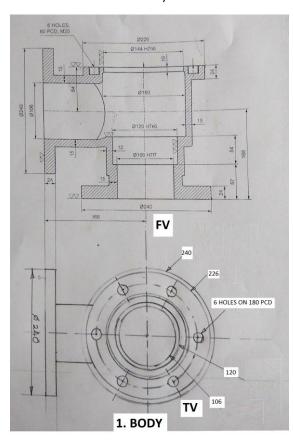
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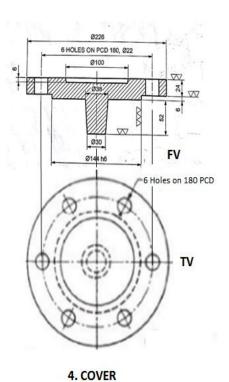


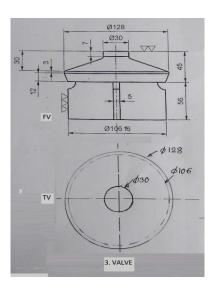
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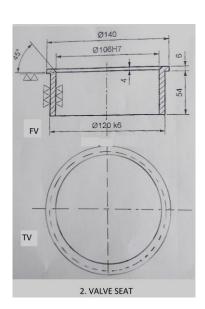
4

(BODY SECT. FV & HALF TV -08 M , COVER SECT. FV & T.V 4 M, VALVE SEAT SECT.FV & TV - 02 M & VALVE FV AND TV 02 Marks)



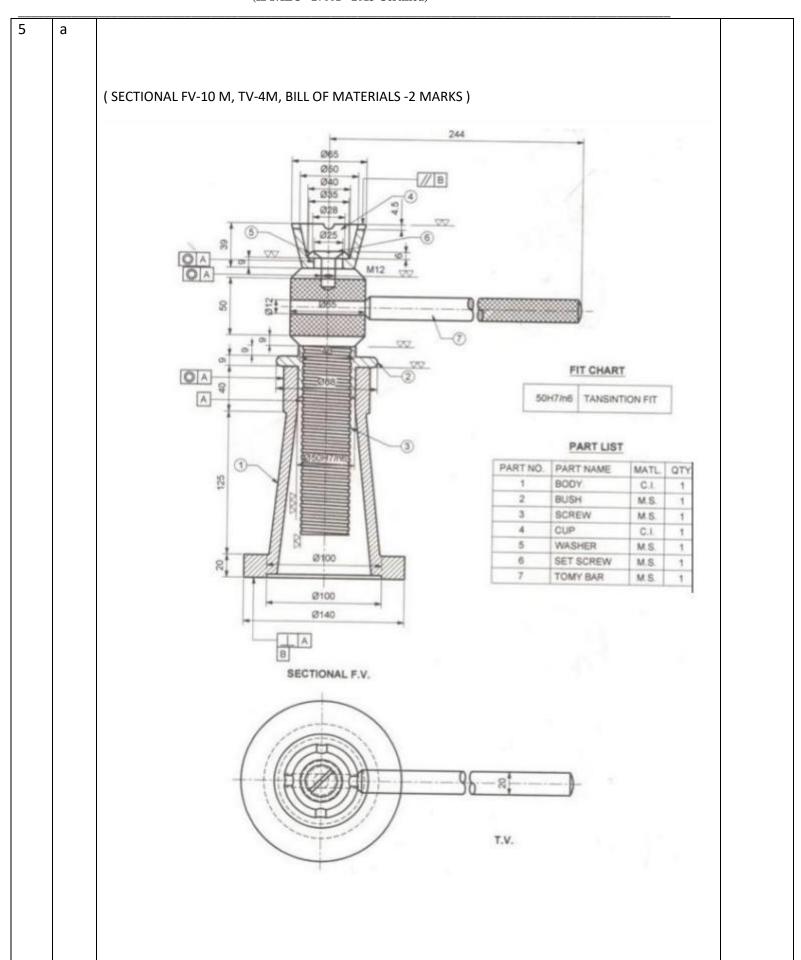








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b

(SECTIONAL FV-9 M, LHSV- 05 M, BILL OF MATERIALS -2 MARKS)

