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BAS-004

B.Tech. AEROSPACE ENGINEERING (BTAE)

Term-End Examination

June, 2017



BAS-004: WORKSHOP TECHNOLOGY

Time: 3 hours Maximum Marks: 70

Note: Attempt any **five** questions. All questions carry equal marks.

- 1. Define the following for a forging die with the help of a sketch: $4 \times 3\frac{1}{2} = 14$
 - (a) Flash
 - (b) Cutter
 - (c) Draft
 - (d) Parting Line
- **2.** (a) Why is the deposition rate high in submerged arc welding? State the disadvantages of submerged arc welding.
 - (b) Describe gas welding with a neat sketch. 7
- 3. Distinguish between elastic and plastic deformation of a material. What are the advantages and disadvantages of hot working?

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4.	(a)	What is a pattern ? Explain different	
		pattern allowances in brief.	7
	(b)	Discuss the properties of a moulding sand.	7
5.	(a)	1	10
	(b)	State one practical reason for using unilateral tolerances.	4
6.	With a neat sketch, explain the working of a		
	lathe machine. Explain any five operations that		
	can	be performed on a lathe.	14
7.	Wri		
	follo	owing: $4 \times 3 \frac{1}{2} =$	14
	(a)	Applications of CNC Machine	
	(b)	Gear Cutting Machine	
	(c)	Optical Comparator	
	(d)	Centrifugal Casting	
	(e)	Sweep Pattern	
	(f)	Extrusion	