B.E SEMESTER VOTHEORYEXAMINATION (NOVEMBER-2016)

SUBJECT CODE: ME 503

Answer each section in separate Answer Sheet.
 Use of scientific Calculator is permitted.

3. All questions are compulsory.

SUBJECT NAME: MANUFACTURING PROCESS

DATE: 15/11/16

Instructions:

(B)

finishing operation.

TIME: 10:30 am to 1:30 pm

TOTAL MARKS: 70

4. Indicate clearly, the options you attempted along with its respective question number. 5. Use the last page of main supplementary for rough work. Section - 1 Q.1 (All Compulsory) 5 (A) Explain the importance of Manufacturing Processes in context of recent development. 5 Describe the types of flame obtained in oxy-acetylene gas welding with neat sketch. (B) State different cold working processes. Discuss any four cold working processes in details 5 (C) 5 Write short note on Electro beam welding. Q.2 5 (A) Classification of plastic and its general properties. 5 (B) Explain wire drawing and tube drawing with neat sketches. OR 5 What is laser beam welding process? Explain the steps involved and state its application. (A) 5 (B) Explain with neat sketch injection moulding process. What are the limitations of this process? Q.3 5 Enlist the various types of presses used in forging explain with neat sketch. (A) 5 (B) Explain TIG welding process in details. OR 5 (A) Explain various welding defects, its causes and remedies.

Explain with sketch and application: Cylindrical and Center less grinding process for

5

Section - 2

	THE RESERVED FOR SHOULD AND AN ARROY OF THE OWNER AND ARE CONTRACTED AND AREAS AND AR	
(A)	Explain compression moulding and blow moulding process.	5
(B)	Explain principle of welding, brazing and soldering with their applications.	5
(C)	ja vije se kondide Calculator is pagarate sinake sinake j E vije of schonolic Calculator is parmiteri.	5
(0)	Discuss the merits and demerits of A.C. and D.C. power sources. Explain straight and	
	OR	
(C)	Describe explosive welding process with its advantages and limitations.	
		5
	dates. To so the such as any analyzers up at pendeton earlies to say a order of earliest. The	
(A)	Explain the terms: Ingot, slab, bloom and billet.	5
(B)	How grinding wheel is specified? Explain in details.	5
	OR	
(A)		5
		J
(B)	Differentiate between Spot and Seam Welding processes.	5
	worthtests to so driving his eight beet growers arred material (b)	
(A)	Enlist types of super finishing processes. Discuss the selection criteria for appropriate super finishing process.	5
(B)	Discuss various methods of extrusion with neat sketch.	5
	or the second and the second s	
(A)	Explain principle and operation of rolling process.	5
(B)	Discuss various types of smith forging operations.	5
	All the Best	
	(B) (C) (C) (A) (B) (A) (B) (A)	(B) Explain principle of welding, brazing and soldering with their applications. (C) Discuss the merits and demerits of A.C. and D.C. power sources. Explain straight and reverse polarity. (C) Describe explosive welding process with its advantages and limitations. (A) Explain the terms: Ingot, slab, bloom and billet. (B) How grinding wheel is specified? Explain in details. (A) Explain the following terms. i) Glazing ii) Loading iii) Dressing (B) Differentiate between Spot and Seam Welding processes. (A) Enlist types of super finishing processes. Discuss the selection criteria for appropriate super finishing process. (B) Discuss various methods of extrusion with neat sketch. OR (A) Explain principle and operation of rolling process. (B) Discuss various types of smith forging operations.

B.E SEMESTER 5th EXAMINATION (NOVEMBER / 2015)

		T CODE: ME-503 3/11/2015 SUBJECT NAME: Manufacturing Process TIME: 10:30 am to 1:30 pm TOTAL MARKS:	70
Inst 1 2 3 4 5	. An . Use . All . Ind	ions: Issuer each section in separate answer sheet e of scientific calculator is permitted I questions are compulsory. Ilicate clearly, the options you attempt along with its respective question number. e the last page of main supplementary of rough work.	
0.1		Section-I	05
Q.1	[A]	How manufacturing processes can be differentiated? Explain with example.	05
	[B]	Classify the welding processes. Explain Principal of carbon arc welding with its application in industry.	05
	[C]	Write about chemical reactions produced in oxy-acetylene gas welding also explain about carburizing flame and its application. OR	05
	[C]	What is polarity in arc welding? Also explain the effect of welding current in arc welding.	05
Q.2	[A]	Explain the various forms of flux and its advantages in welding process.	05
	[B]	Write about principle of resistance welding. Explain projection welding with neat sketch.	05
		OR 1	
Q.2	[A]	Explain spot and seam welding process.	05
	[B]	Explain plasma beam welding process with neat sketch.	05
Q.3	[A]	Explain metal transfer in MIG welding.	05
	[B]	Explain welding techniques with neat sketch.	05
		OR	0.5
Q.3	[A]	Explain about ultrasonic welding with neat sketch.	05
	[B]	What is solid state welding explain any one with neat sketch?	05

Section-II

Q.4	[A]	Explain recrystalization, Also define hot and cold forming processes in brief.	05
	[B]	Explain principle of elastic and plastic deformation with example.	05
n	[C]	Explain mechanism of rolling with neat sketch.	05
	[C]	OR What is forward and backward extrusion process? Explain with neat sketch.	05
Q.5	[A]	What is shear? Explain it by using piercing and blanking with neat sketch.	05
	[B]	Explain steps of cold drawing operation.	05
		OR	
Q.5	[A]	Write about metal spinning and it application in industry.	05
	[B]	Explain embossing and coining with neat sketch.	05
Q.6	[A]	What is blow moulding? Explain with neat sketch.	05
	[B]	Classify the super finishing processes. And explain about buffing.	05
		OR OR SHEEL WILLIAM AND	
Q.6	[A]	Explain plunger type injection moulding.	05
	[B]	Draw schematic diagram of vertical lapping machine and explain its working?	05

BEST OF LUCK

B.E. SEMESTER-V (MECHANICAL ENGG.) EXAMINATION (NOV-2014)

SUBJECT CODE: ME503 DATE: 18/11/2014

SUBJECT NAME: Manufacturing Process

TIME:10:30 a.m. to 1:30 p.m.

TOTAL MARKS:70

Instructions:

- 1. Answer each section in separate answer sheet
- 2. Use of scientific calculator is permitted
- 3. All questions are compulsory.
- 4. Indicate **clearly**, the options you attempt along with its respective question number.
- 5. Use the last page of main supplementary of rough work.

Section-I

Q.1	[A]	What is manufacturing process? Explain Selection of manufacturing process.	05
	[B]	Classify the welding processes. Explain Principal of arc welding its application in industry.	05
	[C]	Explain different types of flames produced during Oxy-Acetylene Gas welding with its applications.	05
	[C]	OR Write about power sources in arc welding process and its characteristics.	05
Q.2	[A]	Explain about various type of flux used in welding processes. Also explain the advantages of flux and coatings in welding process.	05
	[B]	What is resistance welding? Explain spot welding with neat sketch.	05
		OR	
Q.2	[A]	Explain projection and seam welding process.	05
	[B]	Explain plasma beam welding process with neat sketch.	05
Q.3	[A]	Write difference between the TIG and MIG.	05
	[B]	Explain welding techniques with neat sketch.	05
	- E1 0 10°	OR	
2.3	[A]	Explain about explosive welding with neat sketch.	05
	[B]	What is friction welding explain it?	05

Section-II

Q.4	[A]	Differentiate hot and cold working processes.	05
	[B]	Explain principal of elastic and plastic deformation and also explain concept of strain hardening.	05
	[C]	What is rolling process explain mechanism of rolling with neat sketch.	05
	[C]	OR Explain forward and backward extrusion process with neat sketch.	05
Q.5	[A]	Explain piercing and blanking with neat sketch.	05
	[B]	Explain wire drawing operation with neat sketch.	05
		OR	
Q.5	[A]	Write about general properties of Plastics and explain blow moulding process.	05
	[B]	Explain injection moulding with neat sketch.	05
Q.6	[A]	What is thermoforming and slush moulding?	05
	[B]	Classify the super finishing processes. And explain about polishing.	05
	-		
		OR	
Q.6	[A]	Explain grinding and Lapping.	05
	[B]	What is Buffing and Barrel Tumbling?	05

BEST OF LUCK

B.E. SEMESTER-V (MECHANICAL ENGG.) EXAMINATION (APRIL-2015)

SUBJECT CODE: ME503

SUBJECT NAME: Manufacturing Process

DATE: 22/04/2015

TIME:10:30 a.m. to 1:30 p.m.

TOTAL MARKS:70

Instructions:

- 1. Answer each section in separate answer sheet
- 2. Use of scientific calculator is permitted
- 3. All questions are compulsory.
- 4. Indicate clearly, the options you attempt along with its respective question number.
- 5. Use the last page of main supplementary of rough work.

Section-I

[A] Define manufacturing process? Explain different type of manufacturing process. 05 05 Define welding processes. [B]Explain principal of Oxy-Acetylene Gas welding with neat sketch. Also list the equipments used in Oxy-Acetylene gas welding. 05 Write mechanism of arc initiation in arc welding process. 05 Write shot note on flux used in various welding process. Q.2 [A] 05 Explain spot welding with neat sketch. [B] OR 05 Explain projection welding process with neat sketch. Q.2 [A] 05 Explain ultrasonic welding process with neat sketch. [B] 05 Q.3 [A] Differentiate TIG and MIG welding. 05 Explain welding defects. B 05 Q.3 [A] Write about welding position with neat sketch. 05 What is plasma welding explain it with neat sketch? [B]

Section-II

Q.4	[A]	Differentiate hot working and cold working processes.	05
	[B]	What is plastic deformation and also explain concept of strain hardening.	05
	[C]	Explain mechanism of rolling with neat sketch.	05
	[C]	OR Differentiate forward and backward extrusion process.	05
Q.5	[A]	Explain cold heading and riveting.	. 05
	[B]	Explain wire drawing operation with neat sketch.	05
		OR	
Q.5	[A]	Explain blow moulding process with neat sketch.	05
	[B]	Explain injection moulding and its application with neat sketch.	05
Q.6	[A]	What is slush moulding explain it?	05
	[B]	Explain about buffing and burnishing.	05
		OR	
Q.6	[A]	Explain different types of lapping and polishing.	05
	[B]	Write general properties of plastics.	05

BEST OF LUCK