	GOVERNMENT POLYTECHNIC,SHEOHAR			
DEPARTMENT OF MECHANICAL ENGG.				
QUESTION BANK				
SUBJECT:-Manufacturing Engg. Sem :-3rd				
s.no	Question	Unit		
1	Compare Turing, Step Turing, Taper Turing and Parting Off Operation?	1		
2	A person want to make a taper shape on a bar with a specification of D1=8 mm and D2=4mm and a Length of 10mm. Calculate the taper Angle for swing of compound rest?	1		
2	A person wants to hold the work piece in lathe machine, work piece shape round irregular, small types of	1		
3	chuck use for respective shape of work piece?	1		
4	List any four properties of lubricants?	1		
5	List any four function of cutting fluid?	1		
6	Discuss the criterion for selection of cutting fluid?	1		
7	Explain any two of the following lathe operation 1)knurling 2)boring 3)threading	1		
8	Difine following operations on lathe:(a) Knurling (b) Threading	1		
9	Discuss the classification of cutting fluids with their properties and applications.	1		
	Explain the operation and tools require for any two of following lathe operations:(a) Turning (b)Facing (c)			
10	Boring (d) step tuning	1		
11	Classify different types of lobricants used in maching	1		
12	Explain the following term-(a) Step turning (b) Notching	1		
13	Describe CNC machine and write dwon its advantages.	1		
14	Explain with neat sketch thread cutting operation on lathe machine	1		
	draw the sketch diagram of lathe machine and write down its main parts	1		
16	sketch and describe the essential elements of a twist drill?	2		
17	explain the construction and working principal of horizontal type broaching machine with aneat sketch?	2		
18 19	Differentiate between horizontal type and vertical type broaching mzchine for four differentiates. Differentiate between drills and reamers for four differences.	2		
	Exaplain drill bit parts and their respective function with neat sketches.	2		
	Write the name of different type of broaching machines. Explain any one of them in details.	2		
22	Describe the essential elements of a broaching tool.	2		
23	Define the following:(a) Reaming (b) Boring	2		
24	Sketch and describe the cssential elements of a twist drill.	2		
25	Explain the construction and working principle of horizontal type broaching machine with a neat sketch.	2		
26	Write the advantages and limitaions of broaching	2		
27	Skerch the geometry of twist drill and write the name of its main parts.	2		
28	Write the required equipments for are welding process and also write its applications.	3		
29	Exalain differential indexing in milling machines.	3		
30	List out the four welding defects with their causes and remedies.	3		
31	Write the name of different types of milling machines. Explain any one of them in details.	3		
32	List any four welding defeects.	3		
33	Explain Simple Indexing.	3		
34	Write the advantages of manufacuring gears by shaping method.	3		
35	Expalin the following with neat sketch a) Face Milling b) Down Milling Write the adventages and limitations of Submerged are welding process	3		
36 37	Write the advantages and limitations of Submerged are welding process. Differentiate between soldering and brazing (At least four point)	3		
38	Write the advantages and disadvantages of TIG welding.	3		
39	Discuss the different of welding flames.	3		
40	Explain compound indexing in milling machine	3		
41	Defferentiate between end millinmg and face milling operation.	3		
42	Explain spot welding process with neat sketch and write its application	3		
43	Describe the characteristics required for a lubricants.	4		
44	Explain any one of following sheet metal operations:(a) Punching (b)Notching (Bending	4		
45	Write the heat treatment process applied to gears.	4		
	Write short notes on any two of the following gear manufacturing methods.(a) Casting (b)Stamping (c)Rolling			
46	(d)Gear shaping	4		
47	Explain the following gear finishing processes-a)Gear Grinding b)Gear Burnishing	4		
48	Lists the various operations that can be carried out with press. Describe any two of them in brief.	4		
_	Explain the function of any two of the following component of diesel (a) Bolster plate (b) Strippper (c) Guide			
	pin	4		
	Explain the following tems-(a) Hobbing (b) stamping	4		
51	Explain any two of the following organic coatings.a) Enamels b) oil base paint	5		
52	Discuss the different types of abrasives used for grinding wheels.	5		
53	Differentiate between Galvanizing and parkerizing with four differences.	5		

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54	Classify the grinding machines and write the composition of grinding wheel.	5
55	Describe center less grinding. Also write the advantages and disadvantages of this process.	5
56	list the name of abrasive used in grinding wheel?	5
57	Describe the Indian Standards method of specifying a grinding wheel with the help of an example.	5
58	Discuss the advantages and limitations of centerless grinding operation.	5
59	Write short notes on any two (a) Oil- base point (b) Galvanizing (c) Rubber base coating.	5
60	Explain the designation of grinding wheel.	5
61	Explain any one of the following a)Glazing b)Dressing	5
62	Explain basic principle of electroplating and write its applications.	5
63	Describe centerless grinding with the help of neat sketch.	5
64	Expain galvanzing process and wite its advantages	5