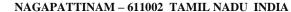


E.G.S. PILLAY ENGINEERING COLLEGE

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai Accredited by NAAC with 'A' Grade | An ISO 9001 : 2008 Certified Institution



Ph: 04365-251112 / 251114 | E-mail:enquires@egspec.org | Website: www.egspec.org



K2

CYCLE TEST 2

	Answer ALL the Questions		
Faculty Name	: S. RAMABALAN	Max. Marks	: 100 marks
Course Name	: UCM	Course Code	: ME6004
Branch	: B.E.(Mech. Engg.)	Max. Time	: 3 Hours
Sem/Section/Year	: VI/A/ III	Date & Session	:

	Answer ALL the Questions		
Q.No.	PART-A (10X2=20)	CC)# KL
1.	Write the typical applications of CM?	5	K2
2.	Can you machine electrically non-conducting materials in EBM process?	5	K1
3.	What is the function of water muffler in PAM?	5	K2
4.	What is meant by etch factor?	4	K2
5.	What is the self adjusting feature in ECM?	4	K2
6.	State the limitations of ECM.	4	K1
7.	What is the function of electrolyte in ECM?	4	K2
8.	Define electron beam.	5	K1
9.	Contrast LBM and EBM?	5	K2
10.	Describe commonly used gas mixture in PAM and their corresponding work materials?	5	K2
Q.No.	PART-B (5X13=65)	CO#	KL
11.	Explain constructional and working principle of ECM.	4	K2
12.	Explain constructional and working principle of LBM.	5	K2
13.	Explain constructional and working principle of PAM.	5	K2
14.	Explain constructional and working principle of EBM.	5	K2
15.	Explain constructional and working principle of ECG.	4	K2
Q.No.	PART-C (1X15=15)	CO#	KL

Course Outcomes:

After completion of this course, students can able to

Explain constructional and working principle of ECH.

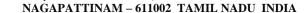
- 1. Explain the need and recent trends in unconventional machining processes.
- 2. Use mechanical energy based unconventional machining processes.
- 3. Use electrical energy based unconventional machining processes.
- 4. Use chemical and electro-chemical energy based unconventional machining processes.
- 5. Explain thermal energy based unconventional machining processes.

BT Knowledge Level: K1-Knowledge, K2-Understanding, K3-Apply, K4.Analysis, K5-Evaluate. K6-Create



E.G.S. PILLAY ENGINEERING COLLEGE

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai Accredited by NAAC with 'A' Grade | An ISO 9001 : 2008 Certified Institution



Ph: 04365-251112 / 251114 | E-mail:enquires@egspec.org | Website: www.egspec.org



Sem/Section/Year: VI/A/ IIIDate & Session:Branch: B.E.(Mech. Engg.)Max. Time: 3 HoursCourse Name: UCMCourse Code: ME6004Faculty Name: S. RAMABALANMax. Marks: 100 marks

Answer ALL the Questions

Q.No.	PART-A (10X2=20)	CO:	# KL
1.	Write the typical applications of CM?	5	K2
2.	Can you machine electrically non-conducting materials in EBM process?	5	K1
3.	What is the function of water muffler in PAM?	5	K2
4.	What is meant by etch factor?	4	K2
5.	What is the self adjusting feature in ECM?	4	K2
6.	State the limitations of ECM.	4	K1
7.	What is the function of electrolyte in ECM?	4	K2
8.	Define electron beam.	5	K1
9.	Contrast LBM and EBM?	5	K2
10.	Describe commonly used gas mixture in PAM and their corresponding work materials?	5	K2
Q.No.	PART-B (5X13=65)	CO#	KL
11.	Explain constructional and working principle of ECM.	4	K2
12.	Explain constructional and working principle of LBM.	5	K2
13.	Explain constructional and working principle of PAM.	5	K2
14.	Explain constructional and working principle of EBM.	5	K2
15.	Explain constructional and working principle of ECG.	4	K2
Q.No.	PART-C (1X15=15)	CO#	KL
16.	Explain constructional and working principle of ECH.	4	K2

Course Outcomes:

After completion of this course, students can able to

- 1. Explain the need and recent trends in unconventional machining processes.
- 2. Use mechanical energy based unconventional machining processes.
- 3. Use electrical energy based unconventional machining processes.
- Use chemical and electro-chemical energy based unconventional machining processes.
- **5.** Explain thermal energy based unconventional machining processes.

BT Knowledge Level: K1-Knowledge, K2-Understanding, K3-Apply, K4.Analysis, K5-Evaluate, K6-Create

