

Name of Course: XII Mechanical Technology (IA,IB,IC)

Paper I CNC Programming (IA)

Blue Print

Sr. No	Unit	Knowledge			Understanding			Application			Total	Total Marks with option
		Objective	Short Answer	Long Answer	Objective	Short Answer	Long Answer	Objective	Short Answer	Long Answer		
01	CNC Programming and Operations	1(10)	-	10(2)	-	4(3) 6(3)	-	1(10)	4(1) 6(1)	10(4)	80	120
	No. of questions	10	-	2	-	6	-	10	2	4	-	-
	Total Marks	10	-	20	-	30	-	10	10	40	-	-
	Marks with option	30			30			60			80	120

Figures outside the brackets indicate the Marks of each question and figures in the bracket indicate number of questions.

Name of Course: XII Mechanical Technology (IA,IB,IC)

Paper II CNC Turning (IB)

Blue Print

Sr. No	Unit	Knowledge			Understanding			Application			Total	Total Marks with option
		Objective	Short Answer	Long Answer	Objective	Short Answer	Long Answer	Objective	Short Answer	Long Answer		
01	CNC Turning	1(10)	-	10(2)	-	4(3) 6(3)	-	1(10)	4(1) 6(1)	10(4)	80	120
	No. of questions	10	-	2	-	6	-	10	2	4	-	-
	Total Marks	10	-	20	-	30	-	10	10	40	-	-
	Marks with option	30			30			60			80	120

Figures outside the brackets indicate the Marks of each question and figures in the bracket indicate number of questions.

Name of Course: XII Mechanical Technology (IA,IB,IC)

Paper III CNC Machine (IC)

Blue Print

Sr. No	Unit	knowledge			Understanding			Application			Total	Total Marks with option
		Objective	short Answer	Long Answer	Objective	short Answer	Long Answer	Objective	short Answer	Long Answer		
01	Milling Machine	1(2)	--	10(1)	--	6(1)	-	1(2)	--	10(1)	20	30
02	Grinding Machine	1(2)	--	--	--	6(1)	-	1(2)	--	10(1)	14	20
03	Superfinishing operations	1(2)	--	--	--	4(1)	--	1(2)	4(1)	--	08	12
04	Non conventional Machine Processes	1(2)	--	--	--	4(1)	--	1(2)	6(1)	--	08	14
05	CNC Machineng	1(2)	--	10(1)	--	4(1) 6(1)	-	1(2)	--	10(2)	30	44
	No. of questions	10	-	2	-	6	-	10	2	4	-	-
	Total Marks	10	-	20	-	30	-	10	10	40	-	-
	Marks with option	30			30			60			80	120

Figures outside the brackets indicate the Marks of each question and figures in the bracket indicate number of questions.

Name of Course: XII Mechanical Technology (IA,IB,IC)

Paper I CNC Programming (IA)

Time: 3.00 Hrs.

Marks-80

A) Unitwise Distribution of Marks:

Sr. No.	Units	Marks	Marks with Option
1	C.N.C.Programming & Operations	80	120

B) Objective-wise Distribution of Marks:

Sr. No.	Units	Marks	Percentage	Marks with Option
1	Knowledge	20	25%	30
2	Understanding	20	25%	30
3	Application	40	50 %	60
	Total	80	100%	120

C) Weightages to type of Questions:

Sr. No.	Units	Marks	Percentage	Marks with Option
1	Objective	20	25%	20
2	Short Answer Type	20	25%	40
3	Long Answer Type	40	50%	60
	Total	80	100%	120

Name of Course: XII Mechanical Technology (IA,IB,IC)

Paper II CNC Turning (IB)

Time: 3.00 Hrs.

Marks-80

A) Unitwise Distribution of Marks:

Sr. No.	Units	Marks	Marks with Option
1	C.N.C.Turning	80	120

B) Objective-wise Distribution of Marks:

Sr. No.	Units	Marks	Percentage	Marks with option
1	Knowledge	20	25%	30
2	Understanding	20	25%	30
3	Application	40	50 %	60
	Total	80	100%	120

C) Weightages to type of Questions:

Sr. No.	Units	Marks	Percentage	Marks with option
1	Objective	20	25%	20
2	Short Answer Type	20	25%	40
3	Long Answer Type	40	50%	60
	Total	80	100%	120

Name of Course: XII Mechanical Technology (IA,IB,IC)

Paper III CNC Machine (IC)

Time: 3.00 Hrs.

Marks-80

A) Unitwise Distribution of Marks:

Sr. No.	Units	Marks	Marks with Option
1	Milling Machine	20	30
2	Grinding Machine	14	20
3	Superfinishing Operations	08	12
4	Non Conventional machining processes	08	14
5	CNC Machining	30	44
	Total	80	120

B) Objective-wise Distribution of Marks:

Sr. No.	Units	Marks	Percentage	Marks with option
1	Knowledge	20	25%	30
2	Understanding	20	25%	30
3	Application	40	50%	60
	Total	80	100%	120

C) Weightages to type of Questions:

Sr. No.	Units	Marks	Percentage	Marks with option
1	Objective	20	25%	20
2	Short Answer Type	20	25%	40
3	Long Answer Type	40	50%	60
	Total	80	100%	120

Question Paper Pattern for Theory Paper
Name of Course: XII Mechanical Technology (IA,IB,IC)
Time : 3:00 Hrs (80 Marks)

Q.No.1. Answer the following

(A) State TRUE or FALSE : 5

i)

ii)

iii)

iv)

v)

(B) Match the pairs. 5

i)

ii)

iii)

iv)

v)

(C) Answer in one sentence 5

i)

ii)

iii)

iv)

v)

(D) Fill in the blanks

5

- i)
- ii)
- iii)
- iv)
- v)

Q.No.2. (A) Attempt any Two of the following

8

- i)
- ii)
- iii)
- iv)

(B) Attempt any Two of the following

12

- i)
- ii)
- iii)
- iv)

Q.No.3. Attempt any Four of the following

40

- i)
- ii)
- iii)
- iv)
- v)
- vi)
