Q.20 Describe the safety measures to be observed in CNC operations. (CO7)

Q.21 What is the importance of proper work holding in CNC machining? (CO5)

Q.22 What types of hazards can occur during CNC operations? (CO7)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain the construction and working of a CNC lathe, including its major components. (CO5)

Q.24 Describe the process and advantages of CNC EDM and Wirecut machining. (CO6)

Q.25 Discuss common safety practices and personal protective equipment used in CNC operations. (CO7)

(Note : Course outcome/CO is for office use only)

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Roll No. .....

3rd Year / Advance Diploma in Tool & Die Making

Subject:- CNC Technology

Time : 3Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which component is the brain of a CNC machine? (CO1)

a) Motor b) Machine control unit
c) Tool holder d) Work table

Q.2 What is one advantage of using CNC machines? (CO3)

a) Manual operation b) Increased accuracy
c) Slower production d) Requires less training

Q.3 What does CNC stand for? (CO1)

a) Computer Numerical Control
b) Computer Network Control
c) Central Numeric Control
d) Common Numerical Control

Q.4 Which part of the CNC lathe holds the cutting tool? (CO4)

a) Tailstock b) Chuck

c) Tool turrent d) Bed

Q.5 In CNC milling, what is a common work-holding method? (CO3)

a) Using a magnet b) Clamps and vices

c) Manual holding d) Gravity

Q.6 Which programming language is commonly used for CNC machines? (CO6)

a) Python b) Java

c) G-code d) HTML

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 CNC machines are classified based on their _____. (CO2)

Q.8 The main purpose of a tool holder in CNC machines is to _____. (CO3)

Q.9 The process of creating a part program manually is known as _____ programming. (CO6)

Q.10 In CNC operations, _____ are used to prevent accidents and ensure safety. (CO7)

Q.11 A _____ is used to hold workpieces securely on CNC machines. (CO4)

Q.12 The CNC milling machine can perform operations like _____ and _____. (CO5)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Explain the basic components of a CNC machine.(CO1)

Q.14 What are the advantages of CNC over manual machines? (CO1)

Q.15 Describe the tooling used in CNC machines. (CO3)

Q.16 How do you write specifications of CNC machines? (CO4)

Q.17 What is part-programming, and why is it important? (CO6)

Q.18 Explain the difference between CNC lathe and CNC milling operations. (CO5)

Q.19 What are the main features of CNC EDM machines? (CO5)