

### SECTION-D

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

Q.23 Explain in detail the construction and working of slotting machine. (CO2)

Q.24 Explain any four lathe operations with diagram. (CO3)

Q.25 Explain the main components and working of vertical milling machine in detail. (CO2)

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Roll No. ....

**1st Year / Advance Diploma in Tool and Die Making**

**Subject : Workshop Technology - I**

Time : 3 Hrs.

M.M. : 60

### SECTION-A

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

Q.1 Which manufacturing process includes the powder metallurgy? (CO2)

- a) casting                      b) forming and shaping
- c) machining                d) joining

Q.2 Which of the following part of slotting machine supports all of the other parts of machines? (CO3)

- a) Table                      b) Column
- c) Ram                        d) Base

Q.3 Which type of job motion is there is drilling operation? (CO3)

- a) Rotary                      b) translation
- c) fixed                        d) none of the mentioned

Q.4 Three jaw chuck is also known as \_\_\_\_\_ (CO3)

- a) universal chuck
- b) self-centering chuck
- c) universal of self-centering chuck
- d) none of the mentioned

Q.5 Which of the following is included in basic machine tools? (CO4)

- a) lathe machine
- b) production milling machine
- c) production drilling machine
- d) none of the mentioned

Q.6 \_\_\_\_\_ metal removal process includes milling. (CO4)

- a) conventional machining
- b) abrasive process
- c) nontraditional machining
- d) none of the mentioned

### SECTION-B

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

- Q.7 Define productivity. (CO1)
- Q.8 What is use of chisel? (CO2)

- Q.9 Describe tapping. (CO3)
- Q.10 What is use of power hack saw? (CO2)
- Q.11 What is parting tool? (CO4)
- Q.12 Write the material of milling cutter. (CO4)

### SECTION-C

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

- Q.13 Give the names of any four hand tools and give their use. (CO2)
- Q.14 Write a short note on brazing process. (CO2)
- Q.15 What are the main safety rules to be followed in workshop. (CO5)
- Q.16 Explain the different types of drill chucks. (CO2)
- Q.17 Write a short note on counter boring and step drilling. (CO3)
- Q.18 Give the principles of working of sawing machine. (CO3)
- Q.19 Write a short note on shaping operation. (CO3)
- Q.20 Write the safety precautions associated with the lathe. (CO5)
- Q.21 Give a brief classification of lathe. (CO4)
- Q.22 Explain with neat sketch the 'slot Milling'. (CO3)