

Time : 3 Hrs.

M.M. : 60

### SECTION-A

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

- Q.1 The process of providing metallic coatings by means of electrolysis is called. (CO2)  
q) Electroplating      b) Metal Cladding  
c) Cementation      d) Galvanising
- Q.2 Which of the following process have the lowest metal removal rate? (CO7)  
a) Drilling      b) Milling  
c) Reaming      d) Honing
- Q.3 It comprise major portion of moulding sand? (CO3)  
a) Silica sand      b) Sand binder  
c) Additive material      d) Clay
- Q.4 Grinding wheel is specified as “A 46 K 5 B 17”. Grain size of a wheel will be. (CO6)  
a) Coarse      b) Medium  
c) Fine      d) Very Fine

- Q.5 A feeler gauge is used to check (CO1)  
 a) Thickness of clearance b) Screw pitch  
 c) Surface roughness d) Radius
- Q.6 By increasing feed rate, account of heat generated (CO4)  
 a) Increase b) Decrease  
 c) Remains constant d) None of them

### **SECTION-B**

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

- Q.7 Name two types of coolants \_\_\_\_\_ & \_\_\_\_\_. (CO4)
- Q.8 List two types of drills \_\_\_\_\_ & \_\_\_\_\_. (CO5)
- Q.9 Give name of the gauge for checking height of a component? (CO1)
- Q.10 In gas welding, most commonly used flame is \_\_\_\_\_. (Neutral/Carburising flame) (CO1)
- Q.11 The process of providing a thin layer of zinc coating on iron and steel is called. (CO2)
- Q.12 Full form of MIG \_\_\_\_\_. (CO8)

### **SECTION-C**

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

- Q.13 Enlist the different parts of lathe machine. (CO4)

- Q.14 Explain the procedure for balancing a grinding wheel. (CO6)
- Q.15 What is the difference between reaming and drilling. (CO4)
- Q.16 List different operations to be performed on drilling machines. (CO5)
- Q.17 What are the defects in moulds? Explain their remedies. (CO3)
- Q.18 Describe slip gauges. (CO1)
- Q.19 What do you mean by indexing of a job in milling machine. (CO6)
- Q.20 Describe spot welding process. (CO8)
- Q.21 Describe the process of Electroplating. (CO2)
- Q.22 What is the purpose of lapping? (CO7)

### **SECTION-D**

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

- Q.23 Explain the selection of grinding wheels. Also explain safety precautions in grinding. (CO6)
- Q.24 What is the principle of boring? Give the classification of boring machines. Explain the working of horizontal type boring machine. (CO6)
- Q.25 Describe various casting defects and their remedies. (CO8)