SECTION-C

Note: Short answer type questions. Attempt any four questions out of six questions. (4x5=20)

Q.23 What is transfer moulding? Write its advantages (any two) / disadvantages (any two).

Q.24 Discuss the classification of mould machines.

Q.25 Compare the injection mould and blow mould.

Q.26 Discuss about ejector return mechanism.

Q.27 Write the main performance requirements of steel for molds.

Q.28 List down the main precautions to be taken care for storage of molds.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x25=50)

Q.29 Design and Draw a multi cavity semi positive type mold for anyone electrical item (assume dimensions)

Q.30 Design and draw a two plate mould for a soap case. (assume dimensions)

Q.31 Design and Draw a three plate injection mold for a 6mm bolt.

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5th Sem / Branch : T & D
Sub.: Plastic Mould Design & Drawing

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 In blow molding to inflate soft plastic, which medium is used?

a) Water b) Air
c) Oil d) Alcohol

Q.2 Which of the following processes of moulding is widely used for the manufacturing of bottle caps and automotive dashboards?

a) Compression moulding
b) Transfer moulding
c) Injection moulding
d) Jet moulding

Q.3 In injection moulding process, ribs are generally provided for the reinforcement to avoid sink marks from the component.

a) True b) False

Q.4 Which of the following is not a part of Injection moulding machine?

a) Ejector pins b) Sprue
c) Nozzle d) Breaker plate

Q.5 Which of the following is a type of Transfer Moulding?
a) Pot transfer moulding
b) Plunger transfer moulding
c) Both A & B
d) None of the above

Q.6 _____ is round cross section and has taper along length
a) Runner b) Gate
c) Sprue d) Fillet

Q.7 What are the types of injection molding defects?
a) Sinkmark b) Weld Line
c) Jetting d) All of above

Q.8 Compression moulding cycle do not consists of followings
a) Mould opening b) Mould heating
c) Mould closing d) Mould feeding

Q.9 The purpose of tempering is to
a) Increase hardness
b) Decrease ductility
c) Decrease toughness
d) Relieve residual stresses

Q.10 What is the main principle of electroplating?
a) Hydrolysis b) Neutralization
c) Saturation d) None of the above

SECTION-B

Note: Very short answer type questions. Attempt any ten question out of twelve questions. (10x2=20)

Q.11 Define Injection Pressure.

Q.12 What is extrusion?

Q.13 Name any two materials used for making compression moulds.

Q.14 What is ejector grid? Write its type.

Q.15 What are the common moulding defects?

Q.16 Define under cut.

Q.17 What are ejector pins?

Q.18 What is transfer mould?

Q.19 Write any two factors which decides the gate location.

Q.20 Write the importance of pre-heating in compression moulding.

Q.21 Which steel is used in mould making?

Q.22 Why protective coating of mould is necessary?