Q.27 Explain the process of selection of optimal design.

Q.28 Draw assembly drawing of a mould and give the information given by assembly drawing.

Q.29 Explain the use of process sheet and work sheet.

Q.30 Explain the use of design data sheet.

Q.31 Describe bill of material. What is its use? Explain.

Q.32 Explain the process of machine set-up.

Q.33 Enlist the main applications of software packages in design process.

Q.34 Write a short note on classification of software packages of CAD.

Q.35 Define detail model. Write the process of developing 3D model for a component.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain the principle of selection of standard elements for a mould. Draw standard element and explain their nomenclature.

Q.37 Explain the various parts, components and systems of a mould with neat sketch. Give function and importance of each component also.

Q.38 What are the features need to be calculating before design calculations for a mould? Describe each feature in detail.

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Roll No. .....

2nd Year / Advance in Tool and Die Making

Subject:- Tool Design Practice - II

(Plastic Moulds)

Time : 4Hrs. M.M. : 100

SECTION-A

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

Q.1 _____ is the most of commonly used manufacturing process for the plastic components.

a) Injection molding b) Transfer Molding

c) Blow Molding d) Rotational Molding

Q.2 The process of producing plastic components is moulds without the application of pressure is known as _____.

a) Moulding b) Laminating

c) Calendering d) Casting

Q.3 Injection mold bases, cavities, and cores are most commonly made from:

a) Special aluminums b) Epoxies

c) Beryllium copper d) Special mold steels

Q.4 The drawing which represents the rough idea of the actual design is called_____

a) conceptual sketch b) conceptual elevation

c) conceptual digit d) conceptual parameters

Q.5 How conceptual design begins

a) with predefined requirements and new concepts
b) with fabrication
c) with lofting
d) with cfd tests

Q.6 Transfer molding process combines the principle of _____ and transfer of polymer charge.

a) Injection b) Compression
c) Blow d) Rotation

Q.7 _____ molding is manufacturing process that is used to produce hollow plastic parts.

a) Blow b) Injection
c) Compression d) Transfer

Q.8 Plasticizers are considered _____ solvents.

a) Volatile b) Non-volatile
c) Both 1 & 2 d) None of the above

Q.9 A display listing of program options which users can select, is called

a) Icons b) Options
c) Selection d) Menu

Q.10 If design is carried out in CAD software then what should be the scale of design?

a) full scale b) half scale
c) quarter scale d) tenth scale

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Describe detail drawing.

Q.12 Name some mould parts.

Q.13 Describe standard element.

Q.14 Define gating system.

Q.15 Describe circuit lay out.

Q.16 Define dimensional tolerance.

Q.17 What is use of drawing norms in design work?

Q.18 What is advantage of standard part?

Q.19 Write full form of CAD.

Q.20 Describe 3D model.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Explain the information required to make a mould design and factors on which the design depends.

Q.22 Describe standard elements and give their nomenclature.

Q.23 Explain the concept of design of mould parts.

Q.24 Show with diagram the location of runner and gate in a mould and write their functions.

Q.25 Write a short note on shrinkage and allowances in mould design.

Q.26 Explain the process of preparation of work sheet for mould, material and machine.