Scheme –I

Sample Question Paper

Program Name : **Diploma in Plastic Engineering**
Program Code : **PS**
Semester : **Fifth**
Course Title : **Moulds and Die Design**
Marks : **70**

22550

Time: 3 Hours.

Instructions:

1) All questions are compulsory.
2) Illustrate your answers with neat sketches where necessary.
3) Figures to the right indicate full marks.
4) Assume suitable data if necessary.
5) Preferably, write the answers in sequential order.

Q.1) Attempt any five of the following. **10 Marks**

a) Define cavity and core

b) State the function of sprue bush in injection mould.

c) Enlist the types of core cooling systems

d) List the types of compression moulds.

e) Define parison.

f) Classify the dies on the basis of flow.

g) Enlist the types of sheet manufacturing dies.

Q.2) Attempt any three of the following. **12 Marks**

a) Differentiate between fixed half and moving half of injection mould with at least four points.

b) Explain the working and construction of baffle type cooling system with neat diagram.

c) Explain the working and construction of flash type compression mould with neat diagram.

d) Describe with neat diagram, the venting method for blow mould where neck and base inserts are used.

Q.3) Attempt any three of the following. **12 Marks**

a) Explain the construction and working of stripper plate ejection system with neat diagram.

b) Describe the construction and working of integral pot type transfer mould with neat diagram.

c) Explain with neat diagram, the construction of blow mould where PET performs get stretched.

d) Describe the construction of in line pipe die with neat diagram

Q.4) Attempt any three of the following. 12 Marks

a) Explain with neat diagram, the construction of injection mould which is having two parting lines.

b) Describe sleeve ejection system with neat diagram.

c) Explain the construction and working of loose plate transfer moulding.

d) Explain the constructional details of extrusion blow mould with neat diagram.

e) Differentiate between two types of wire and cable coating dies with at least four points.

Q.5) Attempt any two of the following. 12 Marks

a) Enlist any six types of gates. Explain construction and significance of any two gates with neat diagram.

b) Explain the construction and working of hot runner mould with neat diagram.

c) Describe with neat diagram, the construction and working of transfer mould where there is no need of sprue bush.

Q.6) Attempt any two of the following. 12 Marks

a) Explain with neat diagram the construction of types of sprue bushes used in transfer mould

b) Describe the construction of parison die with neat diagram.

c) Explain with neat diagram the construction of three types of pinch off methods used in blow mould.

Scheme –I

Sample Test Paper - I

Program Name : **Diploma in Plastic Engineering**
Program Code : **PS**
Semester : **Fifth**
Course Title : **Moulds and Die Design**
Marks : **20**

22550

Time: 1 Hour

Instructions:

1) All questions are compulsory.
2) Illustrate your answers with neat sketches where necessary.
3) Figures to the right indicate full marks.
4) Assume suitable data if necessary.
5) Preferably, write the answers in sequential order.

Q.1) Attempt any four of the following. **08 Marks**

a) State the function of register ring in injection mould.

b) State the role of venting in injection mould.

c) Classify the types of ejector system used in injection moulding.

d) Enlist the types of compression moulds

e) Define cull pick up

Q.2) Attempt any three of the following. **12 Marks**

a) Explain the construction of guide pin and guide bush with neat diagram

b) Describe the working of fountain type core cooling system with neat diagram

c) Differentiate between pot type and plunger type transfer mould with at least four points

d) Explain construction and working of flash type compression mould with neat diagram.

Scheme –I

Sample Test Paper - II

Program Name : **Diploma in Plastic Engineering**

Program Code : **PS**

22550

Semester : **Fifth**

Course Title : **Moulds and Die Design**

Marks : **20** **Time: 1 Hour**

Instructions:

1) All questions are compulsory.
2) Illustrate your answers with neat sketches where necessary.
3) Figures to the right indicate full marks.
4) Assume suitable data if necessary.
5) Preferably, write the answers in sequential order.

Q.1) Attempt any four of the following. **08 Marks**

a) Enlist the types of blow moulds.

b) Define perform.

c) State the role of venting in blow mould.

d) Classify the dies on the basis of flow.

e) Enlist the types of heating systems for moulds and dies.

Q.2) Attempt any three of the following. **12 Marks**

a) Explain the construction of parison die with neat diagram

b) Explain the constructional details of extrusion blow mould with neat diagram.

c) Describe the construction of fishtail die with neat diagram

d) Differentiate between pressure die and tubing die used for wire and cable coating with at least four points.
