

xv) Explain difference between die and mold.

### SECTION-C

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

Q.3 Write down difference between two plate mold and three plate mold.

Q.4 Define parting surface. Explain different types of parting surfaces with neat sketch.

Q.5 Define angled lift splits. Explain its types with neat sketch.

Q.6 Define side cavity. Explain its type with neat sketch.

Q.7 Explain with neat labelled sketch hot runner mold.

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**5th Sem. / Rubber Tech.**

**Subject : Design of Rubber Moulds and Dies - I**

Time : 3 Hrs.

M.M. : 100

### SECTION-A

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Define core.
  - b) Define guide pillar.
  - c) Define venting.
  - d) Define sprue.
  - e) Define ejector grid.
  - f) Define cycle time.
  - g) Define cooling.
  - h) Define splits.

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- i) Define undercut.
- j) Define gate.
- k) Define impression.
- l) Define clamping.
- m) Define ejector pin.
- n) Define runner.
- o) Define projected area.
- p) Define sprue puller.
- q) Define register ring.
- r) Write down the names of materials used for core.

### SECTION-B

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Explain deep chamber cooling system.
  - ii) Define bolster plate and explain its types.

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- iii) Write short note on selection of parting surface.
- iv) Explain balancing of runner.
- v) Write short note on sliding splits.
- vi) Write short note on internal undercut.
- vii) Write short note on ejector grid.
- viii) Difference between direct and indirect mold clamping. Explain.
- ix) Explain characteristics of materials used for mold.
- x) Explain multi-impression mold.
- xi) Write a short note on side core.
- xii) Write short note on split safety arrangement.
- xiii) Write down various factors in designing a mold.
- xiv) Explain various water connection used in mold cooling.

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