→ 2 Marks

M1 (1) Define s/w and its key characteristics.
(2) Purpose of PSP.
(3) Different umbrella activities.
(4) Evolving role of software
(5) Process assessment and its importance.
(6) Process patterns and their types.
(7) Significance of SDLC in SE.
M2 (8) Agile manifesto
(9) List of s/w process models.
(10) Why s/w ——"——
(11) Phases of waterfall models.
(12) Different roles in SCRUM teams.
(13) Define concurrent Development.
(14) Iterative development.
M3 (15) How feasibility study carried out in Requirements Eng.
(16) Types of Requirements.
(17) Different origin of changes occurring during s/w develop process.
(18) 5 domains of Function Point (FP)
(19) Activities of Requirement Elicitation.
(20) Significance of Requirement gathering.
(21) checks done during requirement validation.

→ 5 Marks

M1 (1) Layered Technology and its components.
(2) concept of process pattern with eg.
(3) Process framework and its need.
(4) Significance of ISO in improving s/w process quality.
(5) List diff types of s/w and distinguish b/w system and application.

(6)
(7)
(8)
(9)
(10)
(11)
(12)
(13)
(14)
(15)
M3 (16)
(17)

(6) How task pattern contribute to successful project completion.

(7) How s/w development myth hinder effective project planning in Risk management.

(8) Diff b/w waterfall and spiral.

(9) concurrent assembly model.

(10) Provide brief overview of ↗ (adv. and disadv. with eg.)

(11) component assembly model. ↘

(12) Diff b/w adv. and disadv. of traditional and agile.

(13) Incremental model. (Diagram, application, adv and disadv)

(14) spiral model. (where it is used)

(15) Agility and its principles.

M3 (16) scheduling diagram of Railway ticket booking (Gantt chart)

(17) LOC sum —

   DRDO agency

   3 modules $\left\{\begin{array}{l} M1 - 4600\ LOC \\ M2 - 6900\ LOC \\ M3 - 8600\ LOC \end{array}\right\}$ $\left.\begin{array}{l} \text{optimistic,} \\ \text{pessimistic,} \\ \text{most likely} \end{array}\right.$

   what is Expected size of development.

(18) components of Analysis model.

(19) Draw level 0 and level 1 for library management.

(20) $\left.\begin{array}{l} Book - 10K \\ \quad - 8K \\ \quad - 12K \end{array}\right\}$ Avg produc — 6K LOC

(21) key differences b/w Basic, intermediate & detailed cocomo models in terms of estimation approach, accuracy and applicability.

(22) How does choice of particular cocomo model