(2½ Hours) [Total Marks: 75]

N. B.: (1) **All** questions are **compulsory**.
(2) Make **suitable assumptions** wherever necessary and **state the assumptions** made.
(3) Answers to the **same question** must be **written together**.
(4) Numbers to the **right** indicate **marks**.
(5) Draw **neat labeled diagrams** wherever **necessary**.
(6) Use of **Non-programmable** calculators is **allowed**.

1. Attempt *any three* of the following: **15**

a. What are the different software development activities recommended in ISO 12207.
b. What is project Charter? What does it contain?
c. What do you mean by project initiation? Explain the principle of W5HH.
d. Describe business case. Discuss the components of a business case?
e. Calculate Net Present Value of project at discounted rate of 8% for the following cash flow table:

Year	Project
0	-100,000
1	30,000
2	30,000
3	30,000
4	30,000
5	30,000
Net profit	50,000

f. What is programme management? What are the steps to create a programme?

2. Attempt *any three* of the following: **15**

a. Discuss Atern and its eight core principles in detail.
b. What us scrum? Explain in detail the different scrum ceremonies.
c. Describe various aspects to consider for successful estimation.
d. Write a detailed note on Albrecht Function Point Analysis along with complexity multipliers.
e. Explain Capers Jones estimating Rule of thumb.
f. Discuss various important aspects of COCOMO II Model.

3. Attempt *any three* of the following: **15**

a. Describe the activity based approach used for project planning.
b. Explain backward pass used during activity planning using network diagram with a suitable example.
c. Differentiate CPM and PERT.
d. List and describe in detail Bohem's top 10 risks and their countermeasures.
e. Write a note on resource smoothing.
f. What is risk ? What are the different ways to deal with it?

muquestionpapers.com

Y080V1802EEY080V1802EEY080V1802EEY080V1802EE

4. Attempt *any three* of the following: **15**

a. List and describe all the phases of project control cycle with a neat diagram.

b. State and explain the review process model with all its phases.

c. Define following terms:
1. Planned value 2. Earned value 3. Actual cost 4. Cost variance 5. Cost performance index (CPI)

d. Describe all the steps of change control procedure.

e. Which are the different stages in contract placement? Describe in detail.

f. Elaborate on the steps in recruitment process.

5. Attempt *any three* of the following: **15**

a. Explain group decision making. What are the obstacles to group decision making? How to reduce the disadvantages of group decision making?

b. Illustrate the different ways in which a software development department can be structured?

c. What are dispersed teams? Explain advantages and disadvantages of dispersed teams along with challenge.

d. List and elaborate the different levels of Capability Maturity Model(CMM).

e. What are the tasks required in comprehensive software reliability program?

f. Discuss in detail about the project closure process.

---

muquestionpapers.com

Y080V1892FFY080V1892FFY080V1892FFY080V1892FF