

B.C.A. Semester-5 Examination

SEC 301

Software Project Management

March-2024

Time : 2-30 Hours]

[Max. Marks : 70

Q 1 Write the following.

- (i) Define Stakeholder. Explain the categories of stakeholders and explain in brief. (7)
 (ii) Which are the activities covered by SPM? List out all and explain in detail. (7)

OR

- (i) Explain Product flow diagram with example. (7)
 (ii) Define Programme. Explain Infrastructure forms of Programme. (7)

Q 2 Write the following.

- (i) Explain Spiral model in detail (7)
 (ii) Explain Expert Judgment technique in detail. (7)

OR

- (i) Explain Incremental Delivery. (7)
 (ii) Explain Eight core Atern/DSDM principle (7)

Q 3 Write the following.

- (i) Explain Risk planning in detail. (7)
 (ii) The project A has 10 inputs and 12 outputs. The project B has 15 inputs and 18 outputs. Find out Euclidean distance. (7)

OR

- (i) Explain Risk Identification in detail. (7)
 (ii) Draw the activity of node network diagram for the following problem. Find out critical path and total duration. (7)

Activity	Duration(Days)	Precedents
A	4	-
B	2	A
C	5	A
D	3	A
E	4	D
F	3	D
G	3	C
H	3	E
I	2	F
J	6	B
K	5	-
L	5	A,K

Q 4 Write the following.

- (i) What is Contracts? List out types of contracts? Explain fixed price contract (7)
 (ii) Explain Slip chart in detail. (7)

OR

- (i) Explain Gantt chart in detail. (7)
 (ii) List out nature of resources and explain them in brief. (7)

- (1) $CPI = \frac{\quad}{\quad}$.
a) EV, AC
b) AC, EV
c) AC, PV
d) EV, PV
- (2) A Project is a planned activity. (True / False)
- (3) Which is not category of resources?
a) Labour
b) Equipment
c) Service
d) Software
- (4) PERT stands for _____.
- (5) WTO Stands for _____.
- (6) Write down Parkinson's Law.
- (7) Which is not of risk planning task?
a) Risk acceptance
b) Risk avoidance
c) Risk reduction
d) Risk deduction
- (8) Define 0/100 technique.
- (9) _____ is a method for calculating 'loss' in days rather than money.
a) Analogy
b) Surrogate
c) Both (a) & (b)
d) None of above
- (10) A very jagged slip line indicates a need for _____.
a) Redrawing
b) Recalculating
c) Rescheduling
d) None of above
- (11) $Effort = \frac{\quad}{\quad} * \frac{\quad}{\quad}$.
- (12) The total service time divided by the number of failures is known as _____.
a) Availability
b) Mean time between failure
c) Failure on demand
d) supporting activity
