ND-101

November-2022

B.C.A., Sem.-V (New)

301(A) : SPM (Software Project Management)

Time : 2½ Hours]   **[Max. Marks : 70**

1. Write the following :
   - (i) Which are the activities covered by SPM ? List out all and explain in detail.   7
   - (ii) Give the difference between Software Project and other types of projects.   7

OR

   - (i) Define Stakeholder. Explain the categories of stakeholders and explain in brief.   7
   - (ii) Define Programme. Explain different forms of Programme.   7

2. Write the following :
   - (i) Explain Waterfall model in detail.   7
   - (ii) Explain Albrecht Function Point Analysis in detail.   7

OR

   - (i) Explain Incremental Delivery.   7
   - (ii) Explain Expert Judgment technique in detail.   7

3. Write the following :
   - (i) Explain Risk Planning.   7
   - (ii) The project A has 9 inputs and 15 outputs. The project B has 12 inputs and 14 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	10	–
B	14	–
C	8	A
D	7	A
E	5	B
F	10	B
G	9	C
H	11	D,E
I	5	G,H

4. Write the following :
   (i) List out nature of resources and explain them in brief. **7**
   (ii) Explain Gantt chart in detail. **7**

   OR

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

5. MCQs (Attempt any 7 out of **12**) **14**

   (1) CPI = _____ / _____.
     (a) EV, AC   (b) AC, EV
     (c) AC, PV   (d) EV, PV

   (2) A project is a planned activity. (True / False)

   (3) PERT stands for _____

   (4) A very jugged slip line indicates a need for _____.
     (a) Redrawing   (b) Recalculating
     (c) Rescheduling   (d) None of above

   (5) Define 0/100 technique.

   (6) 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

   (7) Which is not of Risk planning task ?
     (a) Risk acceptance   (b) Risk avoidance
     (c) Risk reduction   (d) Risk deduction

   (8) Write down Parkinson's Law.

   (9) WTO stands for _____.

   (10) Effort = _____ * _____.
     (a) System Size, Productivity Rate
     (b) System Size, Project Size
     (c) Project Size, Productivity Rate
     (d) None of above

   (11) _____ is a method for calculating 'loss' in days rather than money.
     (a) Analogy   (b) Surrogate
     (c) Both (a) & (b)   (d) None of above

   (12) Which is not a category of resources ?
     (a) Labour   (b) Equipment
     (c) Service   (d) Software