02/06/18

QP Code 40727

## **Duration 3 hrs**

## Total marks assigned to the paper 80

NB: Q. No.1 is compulsory.

Answer any three of the remaining five questions Assume suitable data, if necessary

Q.1 Write Short notes on following (Any Four)

(20)

- (a) Work Breakdown Structure (WBS)
- (b) Triple contraints in Project management
- (c) Goldratt's critical chain
- (d) Concurrent Engineering
- (e) Project Audit
- (f) Project Management Information System

Q.2(a) The table shows estimation of probability and likely impact of certain risks in a project of "Restoring and refurbishing a heritage building housing a museum" by project engineer of a city municipal corporation. Total project cost is Rs. 100 Million and duration is 1 year.

| Code | Risk なんさらっこ Probability  | Impact (Mn Rs) |
|------|--|----------------|
| Α    | Damage to structural artwork of building 20%                                   | <b>7</b> 15    |
| В    | Theft of or damage to antique items 60%  | 80             |
| С    | Structural deterioration more than 80% expected                                | 30             |
| D    | Loss of revenue due to delay in project 3 40%                                  | 5              |
| Е    | Architect fees exorbitant due to likely 60% increase in scope during execution | 2              |

Device a suitable impact scale and make a probability impact matrix and comment on the severity of each risk based on the same (10)

- (b) List and briefly describe the ways projects may be terminated. What are some non technical reasons for project termination? (10)
- Q.3 (a) Match the following and justify your selection in each case (10)

| Selection Model                 | Project  |
|---------------------------------|--|
| 1. Sacred cow                   | a) Dettol liquid hand soap is launched in market   |
| 2. Operating necessity          | b) State bank launches State Bank Buddy App.   |
| 3. Compititive necessity        | c) Tata motors decided to make Rs.1 lakh car when Mr. Ratan Tata gave it as a challenge.   |
| 4 Product line extension        | d) Air India decided to buy Boing 787 after comparing with other models of Boing & Airbus. |
| 5. Comparative Benefit<br>Model | e) ONGC buys new helicoptors for oil rigs.   |

| (b) What is a scope creep? How does formal change control system works project management?  | ii<br>10 |
|---|----------|
| Q.4 (a) What is a project life cycle? How does cost of change, risk and influence of stakeholders are affected with project time during the life cycle of a project?  | े<br>10  |
| (b) What is the purpose of control in project management? What are the three main types of control system? What are characteristics of a good control system?   | 10       |
| Q.5 (a) A software development project at day 70 exhibits an actual cost of Rs.78,00 and the scheduled cost of Rs. 84,000/ The software manager estimates the value of completed work to be Rs. 81,000/ What are the cost and schedule variances and Completed work to be Rs. 81,000/ | f        |
| (b) Differentiate between the Functional, Rure Project and Matrix organizations. (1   | LO)      |
| (c) Compare the top down budgeting and bottoms up budgeting.  | (5)      |
| Q.6 (a) Why communication is most important part of project manager's job? (  | (5)      |
| (b) What is crashing of the project? Explain with a small example the process of crashing   | LO)      |
| (c) Explain the four stages of team development and growth? (   | 5)       |

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