

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M.Tech., Summer 2017 - 18 Examination

Semester: 1
Subject Code: 03216133
Subject Name: Project Material Management

Date: 31/05/2018
Time: 2:00 pm to 4:30pm
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1** A) What are the functions of material management? (05)
 B) Explain in detail: "The different costs associated in inventory management". (05)
 C) Explain the duties of store keeper. (05)

Q.2 Answer the following questions. (Attempt any three) (Each five mark) (15)

- A) What are the assumptions of classical EOQ model?
- B) Explain the objective of purchase management.
- C) What is material management? What are the aspects to be covered in it?
- D) Enlist the advantages and disadvantages of ABC analysis in construction project.

Q.3 A) A dealer has observed the distribution of demand during lead time in respect of concrete mixer machine as follow: (07)

DDLT (units)	4	5	6	7	8	9
Frequency	8	19	27	25	18	3

Carrying mixer machine unsold during LT is having cost of Rs. 50/-, while stock out cost is Rs.200/-. Determine the safety stock level that would involve minimum expected cost.

- B) Explain the policy difference in ABC analysis. (08)

OR

- B) A company uses 8000 units of a product as a raw material having cost of Rs10/unit. The administrative cost per purchase is Rs.40. Holding cost is 28% of purchase cost. Company is following an optimum purchase quantity and places order according to EOQ. Company gets offer of quantity discount of 1% if it purchases the total requirement only four times a year. Should the company accept this offer? If not, what minimum discount company should demand? (08)

Q.4 A) Explain in detail: "E-tendering in construction industry for material management". (07)

OR

- A) Explain in detail: "Vendor Rating Analysis". (07)
- B) What is inventory management? Explain its different types. (08)