

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

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

Date: 04/01/2018
Time: 02:00 pm to 04:30 pm
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 is integrated material management? What are the advantages of it?
- B) Enlist the advantages and disadvantages of ABC analysis in construction project.
- C) Explain the procedure of purchasing in construction projects.
- D) What are the functions of store department in construction industry?

Q.3 A) Fill the blanks: Assume total working days = 250 in a year. (07)

Material	Annual Demand (Unit)	Order Cost (Rs.)	Holding Cost (Rs.)	Lead Time (Days)	EOQ	Re-order Level
X	8000	15	0.06	10	?	?
Y	?	40	0.18	6	?	216
Z	7500	?	30	?	300	210

- B) What is inventory management? Explain its different types. (08)

OR

B) Perform ABC analysis and answer the following question: (08)

1. For which item you would suggest safety stock?
2. For which item large inventory is required?
3. Which item needs senior level review system?
4. For which item record keeping is not essential?

Item	1	2	3	4	5	6	7	8	9	10	11	12
Units	700	2400	150	60	3800	4000	6000	300	30	2900	1150	410
Unit Price (₹)	5	3	10	22	1.50	0.50	0.20	3.50	8	0.4	7.10	6.20

Q.4 A) What is EOQ? Explain the classical EOQ model in detail. (07)

OR

- A) Except ABC analysis, explain all other approaches used in material management. (07)
- B) Explain in detail: "E-tendering in construction industry for material management". (08)