INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

MASTER OF BUSINESS ADMINISTRATION
TUTORIAL QUESTION BANK

Course Name	:	**OPERATIONS MANAGEMENT**
Course Code	:	CMB0013
Class	:	II MBA II SEMESTER
Branch	:	MBA
Academic Year	:	2016 – 2017
Course Coordinator	:	Miss. ZARA, Assistant professor
Course Faculty	:	Miss. ZARA, Assistant professor

COURSE OBJECTIVES;

The course should enable the students to:

I	Understand the strategic role of operations management in creating and enhancing a firm's competitive advantages.
II	Analyze the key concepts, issues and different types of techniques of Operations Management in both manufacturing and service organizations.
III	Know about the interdependence of the operations function with the other key functional areas of a firm.
IV	Apply analytical skills and problem-solving tools to the analysis of the operations problems.

COURSE LEARNING OUTCOMES :(CLO's)

Students, who complete the course, will have demonstrated the ability to do the following:

CMB0013:01	Understand about the different types of processes and its production system in organizations and also its environment.
CMB0013:02	Know the difference between the product and process focused system
CMB0013:03	Able to understand about the product life cycle and process life cycle its relationship.
CMB0013:04	Access about the scheduling, different stages and its factors affecting scheduling.
CMB0013:05	Know about the maintenance system and its objectives, different types of maintenance system.
CMB0013:06	Analyze about the concepts of capacity planning, replacement and bathtub curve.
CMB0013:07	Able to understand about the quality control tools and techniques and also different types of controlling measures for the products in organizations.
CMB0013:08	Know about the concept of quality circles and to know about the importance and its objectives.
CMB0013:09	Understand about the acceptance sampling and its different types of sampling plans used for the products.
CMB0013:10	Able to understand about the material requirement planning and also know about its advantages and disadvantages of MRP.
CMB0013:11	Know about the concept of waste management ,different types and its benefits in an organizations
CMB0013:12	Understand about the make or buy decision concept and its advantages , disadvantages, its factors
CMB0013:13	Know about the concept of vendor rating and also about the role of vendor in production and operation management.
CMB0013:14	Analyze the key concepts, issues and different types of techniques of Operations Management in both manufacturing and service organizations
CMB0013:15	Able to access the different types of EOQ models used in the inventory process in an organization for the products.
CMB0013:16	Understand about the stores and stores management and various functions performed by

	stores department.
CMB0013:17	Know about the VED analysis and it benefits in an organizations

TUTORIAL QUESTION BANK

S. No	QUESTION	Blooms Taxonomy Level	Course Learning Outcomes (CLOs)
UNIT-I			
INTRODUCTION TO OPERATIONS MANAGEMENT			
PART-A (SHORT ANSWER QUESTIONS)			
1	Define operations management.	Remember	CMB0013:01
2	Explain the concept of production management.	Understand	CMB0013:01
3	Define batch production and write its advantages.	Understand	CMB0013:02
4	Explain the types of production system.	Remember	CMB0013:01
5	Define operations management.	Understand	CMB0013:01
6	Explain about the action phase.	Understand	CMB0013:02
7	Define operation design.	Understand	CMB0013:02
8	Define process and Explain the various types of processes.	Remember	CMB0013:01
9	What is process focused system and how it is used?	Remember	CMB0013:01
10	What is product focused system?	Understand	CMB0013:03
11	Explain the various types of processes.	Remember	CMB0013:01
12	Define process planning.	Understand	CMB0013:02
13	Write a short note on production planning and control.	Remember	CMB0013:02
14	Write about the stages of production cycle with the help of diagram?	Remember	CMB0013:02
15	Define assembly production.	Understand	CMB0013:01
16	Explain about the job shop and write its merits.	Understand	CMB0013:03
17	Write about the process technologies.	Remember	CMB0013:03
18	Define CAD and CAM technologies.	Remember	CMB0013:03
19	Discuss about the design technology.	Understand	CMB0013:03
20	What is maturity stage and how it is occurred ?	Understand	CMB0013:03
PART-B (LONG ANSWER QUESTIONS)			
1	Define process planning? Distinguish between process design and operations design.	Understand	CMB0013:03
2	Define production and operations management. Explain its significance in service organization.	Remember	CMB0013:01
3	What is the role of operations management in total management system?	Understand	CMB0013:01
4	Explain about the different types of production and operations system.	Remember	CMB0013:01
5	Explain the scope, characteristics of production and operations management.	Understand	CMB0013:02
6	Discuss the interface between operation function and other functional areas.	Remember	CMB0013:02
7	Define operations management and explain the evolution of production and operations management.	Understand	CMB0013:02

<table>
<tr><th>S. No</th><th>QUESTION</th><th>Blooms Taxonomy Level</th><th>Course Learning Outcomes (CLOs)</th></tr>
<tr><td>8</td><td>Distinguish any ten differences between operations management and production management.</td><td>Understand</td><td>CMB0013:02</td></tr>
<tr><td>9</td><td>What are the various technologies used in processes of operations management in detail and give its purpose?</td><td>Remember</td><td>CMB0013:03</td></tr>
<tr><td>10</td><td>Explain the various functions of production, planning and control.</td><td>Understand</td><td>CMB0013:01</td></tr>
<tr><td>11</td><td>What do you mean by product life cycle and process life cycle? Explain the relationship between them.</td><td>Understand</td><td>CMB0013:03</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td colspan="4">UNIT-II</td></tr>
<tr><td colspan="4">SCHEDULING AND CONTROL OF PRODUCTION OPERATIONS</td></tr>
<tr><td colspan="4">PART-A(SHORT ANSWER QUESTIONS)</td></tr>
<tr><td>1</td><td>Define scheduling?</td><td>Remember</td><td>CMB0013:04</td></tr>
<tr><td>2</td><td>Explain the concept of total productive maintenance</td><td>Understand</td><td>CMB0013:04</td></tr>
<tr><td>3</td><td>Define aggregate planning and write its scope</td><td>Remember</td><td>CMB0013:05</td></tr>
<tr><td>4</td><td>Define preventive maintenance</td><td>Remember</td><td>CMB0013:05</td></tr>
<tr><td>5</td><td>Differentiate plant layout and plant location</td><td>Understand</td><td>CMB0013:05</td></tr>
<tr><td>6</td><td>Explain level strategy and chase strategy</td><td>Remember</td><td>CMB0013:04</td></tr>
<tr><td>7</td><td>Explain about cellular manufacturing layout</td><td>Understand</td><td>CMB0013:04</td></tr>
<tr><td>8</td><td>Discuss about the product layout and fixed position layout.</td><td>Understand</td><td>CMB0013:04</td></tr>
<tr><td>9</td><td>Explain cycle of schedule with diagram?</td><td>Analyze</td><td>CMB0013:04</td></tr>
<tr><td>10</td><td>What do you mean by maintenance management?</td><td>Understand</td><td>CMB0013:04</td></tr>
<tr><td>11</td><td>What is line balancing and capacity planning?</td><td>Analyze</td><td>CMB0013:04</td></tr>
<tr><td>12</td><td>Explain the concept of loading and dispatching.</td><td>Remember</td><td>CMB0013:05</td></tr>
<tr><td>13</td><td>Write about gantt chart.</td><td>Remember</td><td>CMB0013:05</td></tr>
<tr><td>14</td><td>Write about Master Planning Schedule.</td><td>Understand</td><td>CMB0013:05</td></tr>
<tr><td>15</td><td>Explain about the perpetual schedule.</td><td>Remember</td><td>CMB0013:05</td></tr>
<tr><td>16</td><td>Explain process layout.</td><td>Analyze</td><td>CMB0013:05</td></tr>
<tr><td>17</td><td>What is job shop scheduling?</td><td>Remember</td><td>CMB0013:06</td></tr>
<tr><td colspan="4">PART-B (LONG ANSWER QUESTIONS)</td></tr>
<tr><td>1</td><td>Explain the stages involved in scheduling. State the factors affecting scheduling.</td><td>Remember</td><td>CMB0013:04</td></tr>
<tr><td>2</td><td>Explain about the plant location. Discuss the need for plant location what are the steps involved in selecting a location?</td><td>Remember</td><td>CMB0013:04</td></tr>
<tr><td>3</td><td>Differentiate between product layout and process layout.</td><td>Understand</td><td>CMB0013:05</td></tr>
<tr><td>4</td><td>Explain about the maintenance management ? explain its scope and objectives.</td><td>Understand</td><td>CMB0013:05</td></tr>
<tr><td>5</td><td>Explain “bathtub curve” in detail.</td><td>Remember</td><td>CMB0013:05</td></tr>
<tr><td>6</td><td>Find the sequence that minimizes the total elapsed time require to complete the following tasks, in minutes are given below, calculate the total elapsed time also
<table>
<tr><th>machine</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th></tr>
<tr><td>M1</td><td>14</td><td>10</td><td>10</td><td>13</td><td>12</td><td>11</td><td>9</td><td>9</td></tr>
<tr><td>M2</td><td>11</td><td>14</td><td>10</td><td>9</td><td>14</td><td>14</td><td>7</td><td>10</td></tr>
<tr><td>M3</td><td>9</td><td>8</td><td>10</td><td>11</td><td>12</td><td>7</td><td>8</td><td>9</td></tr>
</table></td><td>Analyze</td><td>CMB0013:06</td></tr>
</table>

<table>
<tr><th>S. No</th><th>QUESTION</th><th>Blooms Taxonomy Level</th><th>Course Learning Outcomes (CLOs)</th></tr>
<tr><td>7</td><td>seven jobs must be processed on two machines A and B in the sequence –A first then B . determine the optimal order in which in which the job should be sequenced through the process using these times and idle times of machines
<table>
<tr><th>job</th><th>Machine A(time hours)</th><th>Machine B(time hours)</th></tr>
<tr><td>1</td><td>9</td><td>6</td></tr>
<tr><td>2</td><td>8</td><td>5</td></tr>
<tr><td>3</td><td>7</td><td>7</td></tr>
<tr><td>4</td><td>6</td><td>3</td></tr>
<tr><td>5</td><td>1</td><td>2</td></tr>
<tr><td>6</td><td>2</td><td>6</td></tr>
<tr><td>7</td><td>4</td><td>7</td></tr>
</table></td><td>Analyze</td><td>CMB0013:01</td></tr>
<tr><td>8</td><td>In a batch production ,five jobs A ,B,C,D, and E are required to be processed on three machines as detailed below .what is the optimum sequence of jobs and elapsed time
<table>
<tr><th>Process time in minutes</th><th>Job A</th><th>Job B</th><th>Job C</th><th>Job D</th><th>Job E</th></tr>
<tr><td>cleaning</td><td>7</td><td>6</td><td>8</td><td>9</td><td>10</td></tr>
<tr><td>machining</td><td>1</td><td>4</td><td>5</td><td>2</td><td>3</td></tr>
<tr><td>painting</td><td>3</td><td>2</td><td>4</td><td>5</td><td>7</td></tr>
</table></td><td>Analyze</td><td>CMB0013:06</td></tr>
<tr><td>9</td><td>Differentiate between a master schedule and subsidiary schedule.</td><td>Understand</td><td>CMB0013:05</td></tr>
<tr><td></td><td>Find the sequence the optimizes the total elapsed time using the following data
<table>
<tr><th>machines</th><th>Job1</th><th>Job2</th><th>Job3</th><th>Job4</th><th>Job5</th><th>Job6</th></tr>
<tr><td>A</td><td>15</td><td>17</td><td>13</td><td>14</td><td>18</td><td>15</td></tr>
<tr><td>B</td><td>12</td><td>13</td><td>9</td><td>10</td><td>11</td><td>12</td></tr>
<tr><td>C</td><td>11</td><td>16</td><td>15</td><td>13</td><td>12</td><td>12</td></tr>
</table></td><td>Remember</td><td>CMB0013:04</td></tr>
<tr><td>10</td><td>Explain about sequencing. What are rules of sequencing?</td><td>Remember</td><td>CMB0013:04</td></tr>
<tr><td>11</td><td>Write in brief about replacement .state the reasons for replacement?</td><td>Understand</td><td>CMB0013:04</td></tr>
<tr><td>12</td><td>What is line balancing ? Write the line balancing procedure?</td><td>Remember</td><td>CMB0013:05</td></tr>
<tr><td>13</td><td>Define capacity. write in detail about its determination and factors influencing its determination</td><td>Remember</td><td>CMB0013:05</td></tr>
<tr><td>14</td><td>Define maintenance systems and Explain various types of maintenance systems?</td><td>Analyze</td><td>CMB0013:05</td></tr>
<tr><td>15</td><td>Differentiate between a master schedule and subsidiary schedule?</td><td>Understand</td><td>CMB0013:05</td></tr>
<tr><td>16</td><td>Find the sequence that minimizes the total elapsed time required to complete the following tasks? Each job time requirements are given in minutes below. Calculate the total elapsed time also
<table>
<tr><th>machines</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th></tr>
<tr><td>A</td><td>12</td><td>16</td><td>15</td><td>11</td><td>15</td><td>17</td><td>16</td></tr>
<tr><td>B</td><td>7</td><td>8</td><td>9</td><td>4</td><td>7</td><td>8</td><td>3</td></tr>
<tr><td>C</td><td>13</td><td>14</td><td>10</td><td>15</td><td>12</td><td>13</td><td>14</td></tr>
</table></td><td>Understand</td><td>CMB0013:06</td></tr>
<tr><td colspan="4">UNIT-III</td></tr>
</table>

<table>
<tr><th>S. No</th><th>QUESTION</th><th>Blooms Taxonomy Level</th><th>Course Learning Outcomes (CLOs)</th></tr>
<tr><td colspan="4">QUALITY CONTROL</td></tr>
<tr><td colspan="4">PART-A(SHORT ANSWER QUESTIONS)</td></tr>
<tr><td>1</td><td>Define quality control.</td><td>Remember</td><td>CMB0013:07</td></tr>
<tr><td>2</td><td>Explain quality circles and give objectives .</td><td>Remember</td><td>CMB0013:07</td></tr>
<tr><td>3</td><td>Explain acceptance sampling.</td><td>Understand</td><td>CMB0013:07</td></tr>
<tr><td>4</td><td>Define pareto analysis.</td><td>Understand</td><td>CMB0013:07</td></tr>
<tr><td>5</td><td>What is meant by quality tools and TQM?</td><td>Remember</td><td>CMB0013:07</td></tr>
<tr><td>6</td><td>Describe about different types of control charts.</td><td>Understand</td><td>CMB0013:07</td></tr>
<tr><td>7</td><td>What is meant by work measurement?</td><td>Analyze</td><td>CMB0013:08</td></tr>
<tr><td>8</td><td>Describe the control charts for variables.</td><td>Understand</td><td>CMB0013:08</td></tr>
<tr><td>9</td><td>Describe about C charts.</td><td>Analyze</td><td>CMB0013:08</td></tr>
<tr><td>10</td><td>Write the steps involved in method study.</td><td>Remember</td><td>CMB0013:08</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td>11</td><td>Define quality assurance.</td><td>Remember</td><td>CMB0013:07</td></tr>
<tr><td>12</td><td>Explain briefly about the statistical quality control(SQC).</td><td>Understand</td><td>CMB0013:07</td></tr>
<tr><td>13</td><td>What do you mean by work study?</td><td>Remember</td><td>CMB0013:08</td></tr>
<tr><td>14</td><td>Define work sampling.</td><td>Remember</td><td>CMB0013:08</td></tr>
<tr><td>15</td><td>Explain about the standard time(S.T) .</td><td>Understand</td><td>CMB0013:08</td></tr>
<tr><td>16</td><td>Explain the concept of OC curve.</td><td>Understand</td><td>CMB0013:08</td></tr>
<tr><td>17</td><td>What do you mean by method study.</td><td>Remember</td><td>CMB0013:09</td></tr>
<tr><td>18</td><td>Mention techniques used in method study.</td><td>Understand</td><td>CMB0013:09</td></tr>
<tr><td>19</td><td>Mention any two objectives of work study.</td><td>Analyze</td><td>CMB0013:09</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td colspan="4">PART-B(LONG ANSWER QUESTIONS)</td></tr>
<tr><td>1</td><td>Explain different techniques of method study.</td><td>Remember</td><td>CMB0013:07</td></tr>
<tr><td>2</td><td>Explain the objectives , functions, and advantages of quality control.</td><td>Understand</td><td>CMB0013:07</td></tr>
<tr><td>3</td><td>Describe about the method study and its objectives? Write the steps involved?</td><td>Remember</td><td>CMB0013:07</td></tr>
<tr><td>4</td><td>Explain about the quality circles. Discuss its characteristics and objectives of quality circles.</td><td>Remember</td><td>CMB0013:08</td></tr>
<tr><td>4</td><td>The number of defectives found in lots 200 each are given below for 16 lots
<table>
<tr><th>Lot no</th><th>No of defectives</th><th>Lot no</th><th>No of defectives</th></tr>
<tr><td>1</td><td>6</td><td>9</td><td>6</td></tr>
<tr><td>2</td><td>12</td><td>10</td><td>10</td></tr>
<tr><td>3</td><td>8</td><td>11</td><td>20</td></tr>
<tr><td>4</td><td>12</td><td>12</td><td>12</td></tr>
<tr><td>5</td><td>16</td><td>13</td><td>16</td></tr>
<tr><td>6</td><td>20</td><td>14</td><td>10</td></tr>
<tr><td>7</td><td>24</td><td>15</td><td>6</td></tr>
<tr><td>8</td><td>10</td><td>16</td><td>12</td></tr>
</table>
Construct np control chart and comment.</td><td>Analyze</td><td>CMB0013:08</td></tr>
<tr><td>5</td><td>What do you understand by statistical quality control? Explain its purpose and advantages.</td><td>Understand</td><td>CMB0013:08</td></tr>
</table>

<table>
<tr><th>S. No</th><th>QUESTION</th><th>Blooms Taxonomy Level</th><th>Course Learning Outcomes (CLOs)</th></tr>
<tr><td>6</td><td>Write about the acceptance sampling. Explain different types of sampling plans used for acceptance sampling.</td><td>Understand</td><td>CMB0013:08</td></tr>
<tr><td>7</td><td>The following data gives readings for quality control job. Determine whether the process is under control
<table>
<tr><th>Sample no</th><th>Mean X</th><th>Range R</th></tr>
<tr><td>1</td><td>3.25</td><td>0.09</td></tr>
<tr><td>2</td><td>3.37</td><td>0.02</td></tr>
<tr><td>3</td><td>3.35</td><td>0.11</td></tr>
<tr><td>4</td><td>3.30</td><td>0.16</td></tr>
<tr><td>5</td><td>3.38</td><td>0.10</td></tr>
<tr><td>6</td><td>3..34</td><td>0.12</td></tr>
</table></td><td>Analyze</td><td>CMB0013:09</td></tr>
<tr><td>8</td><td>A company bottles soft drinks. The bottle comes in only one flavour and only one size (16 ounces) the first daily samples of till weights of 20 bottles are,
(i)compute control limits draw X and R charts
(ii)plot thee 10 points and discuss whether the production process is in control
<table>
<tr><th>sample</th><th>X</th><th>R</th></tr>
<tr><td>1</td><td>16.05</td><td>0.20</td></tr>
<tr><td>2</td><td>16.04</td><td>0.25</td></tr>
<tr><td>3</td><td>15.98</td><td>0.62</td></tr>
<tr><td>4</td><td>15.91</td><td>0.71</td></tr>
<tr><td>5</td><td>16.02</td><td>0.58</td></tr>
<tr><td>6</td><td>16.09</td><td>0.37</td></tr>
<tr><td>7</td><td>15.95</td><td>0.35</td></tr>
<tr><td>8</td><td>16.06</td><td>0.21</td></tr>
<tr><td>9</td><td>15.94</td><td>0.29</td></tr>
<tr><td>10</td><td>15.97</td><td>0.46</td></tr>
</table>
Given
A2=0.180
D3=0.414
D4=1.586</td><td>Remember</td><td>CMB0013:09</td></tr>
<tr><td colspan="4"></td></tr>
<tr><td>9</td><td>What is total quality management? Explain the different kinds of control charts?</td><td>Remember</td><td>CMB0013:08</td></tr>
<tr><td>10</td><td>Discuss the various control charts for attributes? Explain them briefly.</td><td>Remember</td><td>CMB0013:08</td></tr>
<tr><td>11</td><td>What is work study? Explain various techniques of work study?</td><td>Understand</td><td>CMB0013:09</td></tr>
<tr><td>12</td><td>Explain about the control charts with graphical representation and explain its objectives.</td><td>Understand</td><td>CMB0013:09</td></tr>
<tr><td>13</td><td>The following table gives the number of defects in a casting used to making crank case of diesel engine. Construct appropriate control chart with control limits and comment on the process
<table>
<tr><th>c.no</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th></tr>
<tr><td>No. of defects</td><td>15</td><td>11</td><td>25</td><td>10</td><td>12</td><td>20</td><td>15</td><td>10</td><td>17</td><td>13</td></tr>
</table></td><td>Analyze</td><td>CMB0013:09</td></tr>
</table>

<table>
<tr><th>S. No</th><th>QUESTION</th><th>Blooms Taxonomy Level</th><th>Course Learning Outcomes (CLOs)</th></tr>
<tr><td>14</td><td>Construct the appropriate control charts for the following data . twelve samples of five cookies each during two weeks were considered
<table>
<tr><th>sample</th><th colspan="5">Chips per cookie</th></tr>
<tr><td>1</td><td>2</td><td>3</td><td>3</td><td>4</td><td>3</td></tr>
<tr><td>2</td><td>5</td><td>3</td><td>6</td><td>2</td><td>1</td></tr>
<tr><td>3</td><td>4</td><td>3</td><td>3</td><td>2</td><td>2</td></tr>
<tr><td>4</td><td>6</td><td>1</td><td>5</td><td>3</td><td>3</td></tr>
<tr><td>5</td><td>2</td><td>4</td><td>1</td><td>4</td><td>4</td></tr>
<tr><td>6</td><td>5</td><td>1</td><td>3</td><td>3</td><td>3</td></tr>
<tr><td>7</td><td>2</td><td>3</td><td>3</td><td>2</td><td>1</td></tr>
<tr><td>8</td><td>1</td><td>1</td><td>3</td><td>1</td><td>2</td></tr>
<tr><td>9</td><td>6</td><td>3</td><td>3</td><td>3</td><td>3</td></tr>
<tr><td>10</td><td>6</td><td>7</td><td>5</td><td>5</td><td>6</td></tr>
<tr><td>11</td><td>6</td><td>1</td><td>1</td><td>3</td><td>2</td></tr>
<tr><td>12</td><td>5</td><td>5</td><td>3</td><td>1</td><td>3</td></tr>
</table></td><td>Analyze</td><td>CMB0013:08</td></tr>
<tr><td colspan="4">UNIT-IV</td></tr>
<tr><td colspan="4">MATERIALS MANAGEMENT</td></tr>
<tr><td colspan="4">PART-A (SHORT ANSWER QUESTIONS)</td></tr>
<tr><td>1</td><td>What do you mean by materials management?</td><td>Remember</td><td>CMB0013:10</td></tr>
<tr><td>2</td><td>Explain about the make or buy decision and its benefits.</td><td>Understand</td><td>CMB0013:10</td></tr>
<tr><td>3</td><td>Explain about the materials budgeting.</td><td>Remember</td><td>CMB0013:10</td></tr>
<tr><td>4</td><td>What is a learning curve?</td><td>Analyze</td><td>CMB0013:11</td></tr>
<tr><td>5</td><td>Define MRP .Explain the importance of MRP?</td><td>Understand</td><td>CMB0013:10</td></tr>
<tr><td>6</td><td>Explain about ABC analysis and bills of materials(BOM).</td><td>Remember</td><td>CMB0013:11</td></tr>
<tr><td>7</td><td>Write about VED classification.</td><td>Understand</td><td>CMB0013:11</td></tr>
<tr><td>8</td><td>State any four techniques for prioritization of materials.</td><td>Analyze</td><td>CMB0013:10</td></tr>
<tr><td>9</td><td>Write about economic order quantity.</td><td>Understand</td><td>CMB0013:11</td></tr>
<tr><td>10</td><td>Define vendor rating.</td><td>Remember</td><td>CMB0013:10</td></tr>
<tr><td>11</td><td>Explain different types of vendors.</td><td>Analyze</td><td>CMB0013:12</td></tr>
<tr><td>12</td><td>Write about vendor ranking.</td><td>Understand</td><td>CMB0013:11</td></tr>
<tr><td>13</td><td>What are the objectives of materials management?</td><td>Remember</td><td>CMB0013:12</td></tr>
<tr><td>14</td><td>Explain the concept of waste management.</td><td>Understand</td><td>CMB0013:12</td></tr>
<tr><td>15</td><td>Explain about the FSN analysis.</td><td>Understand</td><td>CMB0013:12</td></tr>
<tr><td>16</td><td>What are the benefits for material budgeting?</td><td>Analyze</td><td>CMB0013:12</td></tr>
<tr><td colspan="4">PART-B (LONG ANSWER QUESTIONS)</td></tr>
<tr><td>1</td><td>Explain the importance and objectives of material management.</td><td>Understand</td><td>CMB0013:10</td></tr>
<tr><td>2</td><td>What is vendor rating? What are its determinants?</td><td>Remember</td><td>CMB0013:10</td></tr>
<tr><td>3</td><td>Explain the role of vendor in production and operations management (POM).</td><td>Analyze</td><td>CMB0013:10</td></tr>
<tr><td>4</td><td>What do you mean by make or buy decision? Discuss the pros and cons of this decision.</td><td>Remember</td><td>CMB0013:10</td></tr>
<tr><td>5</td><td>What are the factors influencing the make or buy decision?</td><td>Understand</td><td>CMB0013:11</td></tr>
<tr><td>6</td><td>Define the term waste. Explain its different types of waste.</td><td>Understand</td><td>CMB0013:11</td></tr>
<tr><td>7</td><td>What are the objectives of MRP? Explain its advantages and disadvantages of MRP.</td><td>Analyze</td><td>CMB0013:11</td></tr>
</table>

<table>
<tr><th>S. No</th><th>QUESTION</th><th>Blooms Taxonomy Level</th><th>Course Learning Outcomes (CLOs)</th></tr>
<tr><td>8</td><td>Explain different types of techniques for prioritization of material.</td><td>Remember</td><td>CMB0013:12</td></tr>
<tr><td>9</td><td>Explain the different ways of reducing wastes.</td><td>Remember</td><td>CMB0013:12</td></tr>
<tr><td>10</td><td>How do you evaluate the performance of suppliers? what are the goals of vendor rating?</td><td>Understand</td><td>CMB0013:12</td></tr>
<tr><td colspan="4">UNIT-V</td></tr>
<tr><td colspan="4">STORES MANAGEMENT</td></tr>
<tr><td colspan="4">PART-A(SHORT ANSWER QUESTIONS)</td></tr>
<tr><td>1</td><td>Define stores management.</td><td>Understand</td><td>CMB0013:13</td></tr>
<tr><td>2</td><td>Define safety stock.</td><td>Analyze</td><td>CMB0013:13</td></tr>
<tr><td>3</td><td>What is meant by inventory and various types of inventory?</td><td>Understand</td><td>CMB0013:13</td></tr>
<tr><td>4</td><td>Explain about the tabulation method and algebraic method.</td><td>Remember</td><td>CMB0013:13</td></tr>
<tr><td>5</td><td>Write about the inventory control.</td><td>Remember</td><td>CMB0013:13</td></tr>
<tr><td>6</td><td>Explain the concept of EOQ model.</td><td>Analyze</td><td>CMB0013:14</td></tr>
<tr><td>7</td><td>What are inventory costs and storage cost?</td><td>Remember</td><td>CMB0013:14</td></tr>
<tr><td>8</td><td>Mention various systems available for inventory control.</td><td>Understand</td><td>CMB0013:14</td></tr>
<tr><td>9</td><td>What is meant by cost reduction?</td><td>Understand</td><td>CMB0013:14</td></tr>
<tr><td>10</td><td>Define VED analysis.</td><td>Remember</td><td>CMB0013:14</td></tr>
<tr><td>11</td><td>Define stores layout.</td><td>Analyze</td><td>CMB0013:15</td></tr>
<tr><td>12</td><td>Define bin card.</td><td>Understand</td><td>CMB0013:15</td></tr>
<tr><td>13</td><td>Explain about economic order quantity.</td><td>Understand</td><td>CMB0013:15</td></tr>
<tr><td>14</td><td>What do you mean by holding costs and operational costs?</td><td>Analyze</td><td>CMB0013:15</td></tr>
<tr><td>15</td><td>Write the importance of value analysis.</td><td>Understand</td><td>CMB0013:15</td></tr>
<tr><td>16</td><td>Explain about the value engineering.</td><td>Analyze</td><td>CMB0013:15</td></tr>
<tr><td colspan="4">PART-B(LONG ANSWER QUESTIONS)</td></tr>
<tr><td>1</td><td>Define stores and stores management.What are the various functions performed by stores department?</td><td>Remember</td><td>CMB0013:13</td></tr>
<tr><td>2</td><td>What is stores management? What are the requirements for effective management of stores?</td><td>Remember</td><td>CMB0013:13</td></tr>
<tr><td>3</td><td>Explain the concept of safety stock. what are the various methods used in the computation of safety stock?</td><td>Understand</td><td>CMB0013:13</td></tr>
<tr><td>4</td><td>Define inventory. Explain the importance of maintaining inventory.</td><td>Apply</td><td>CMB0013:13</td></tr>
<tr><td>5</td><td>Explain the various systems of inventory control.</td><td>Remember</td><td>CMB0013:14</td></tr>
<tr><td>6</td><td>Define inventory? Explain various types of inventory.</td><td>Understand</td><td>CMB0013:14</td></tr>
<tr><td>7</td><td>What is value analysis ? how it is used for cost reduction?</td><td>Understand</td><td>CMB0013:14</td></tr>
<tr><td>8</td><td>What are the various costs involved in inventory management ?</td><td>Remember</td><td>CMB0013:14</td></tr>
<tr><td>9</td><td>Classify the following 14 items in ABC categories
<table>
<tr><th>ITEM NO</th><th>MONTHLY CONSUMPTION</th></tr>
<tr><td>D-10</td><td>451</td></tr>
<tr><td>D-11</td><td>1052</td></tr>
<tr><td>D-12</td><td>205</td></tr>
<tr><td>D-13</td><td>893</td></tr>
<tr><td>D-14</td><td>850</td></tr>
<tr><td>D-15</td><td>727</td></tr>
<tr><td>D-16</td><td>412</td></tr>
</table></td><td>Understand</td><td>CMB0013:14</td></tr>
</table>

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<tr><th>S. No</th><th>QUESTION</th><th>Blooms Taxonomy Level</th><th>Course Learning Outcomes (CLOs)</th></tr>
<tr><td></td><td><table>
<tr><td>D-17</td><td>214</td></tr>
<tr><td>D-18</td><td>188</td></tr>
<tr><td>D-19</td><td>172</td></tr>
<tr><td>D-20</td><td>170</td></tr>
<tr><td>D-21</td><td>5056</td></tr>
<tr><td>D-22</td><td>159</td></tr>
<tr><td>D-23</td><td>3424</td></tr>
</table></td><td></td><td></td></tr>
<tr><td>10</td><td>A factory uses annually 24,000 units of raw material which costs rs.125 per unit placing each order costs rs.25 and carrying costs is 6% per year of average inventory.
i)find out the economic order quantity.
ii)how many orders are to be placed in a year
iii)what is the total inventory cost for year including the cost of material</td><td>Remember</td><td>CMB0013:15</td></tr>
<tr><td>11</td><td>An auto industry purchases spark plugs at the rate of rs.25 per piece . the annual consumption of spark plugs is 18000 numbers . if the ordering cost is rs.250 per order and carrying cost is rs.25 % per annum. What would be the EOQ? If the supplier of spark plugs offer discount of 5% for order quantity of 3000 numbers per order do you accept the discount offer?</td><td>Analyze</td><td>CMB0013:15</td></tr>
<tr><td>12</td><td>A company uses 12 different items in the manufacturing process. Their annual requirement and unit costs are given as fallows<table>
<tr><th>items</th><th>quantity</th><th>Unit cost</th></tr>
<tr><td>1</td><td>9000</td><td>10</td></tr>
<tr><td>2</td><td>300</td><td>750</td></tr>
<tr><td>3</td><td>5400</td><td>210</td></tr>
<tr><td>4</td><td>3800</td><td>90</td></tr>
<tr><td>5</td><td>12400</td><td>10</td></tr>
<tr><td>6</td><td>90</td><td>1200</td></tr>
<tr><td>7</td><td>600</td><td>400</td></tr>
<tr><td>8</td><td>22000</td><td>2</td></tr>
<tr><td>9</td><td>750</td><td>175</td></tr>
<tr><td>10</td><td>1000</td><td>250</td></tr>
<tr><td>11</td><td>7600</td><td>75</td></tr>
<tr><td>12</td><td>10000</td><td>4</td></tr>
</table></td><td>Remember</td><td>CMB0013:15</td></tr>
</table>

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