13. The following table gives the numbers of defects observed in 6 woollen carpets manufactured with great care and regarded as satisfactory. Construct the control chart for the member of defects.

Carpet number	1	2	3	4	5	6
No. of defects	3	5	6	4	1	5

(20518)   Roll No......................

B.B.A.-IV Sem.

18057

B.B.A. Examination, May - 2018

Production Management

(BBA-403)

(New)

Time : Three Hours]   *[Maximum Marks : 75*

Note : Attempt questions from **All** Sections as per instructions.

Section – A

(Very Short Answer Questions)

Note : Attempt **all** the **five** questions. Each question carries **3** marks. Very Short answer is required not exceeding **75** words.

$$3 \times 5 = 15$$

1. What is manufacturing?

2. What is Product design?

3. What is Plant layout?

4. Give any three objectives of ABC analysis.

5. What is JIT system?

Section - B

(Short Answer Questions)

Note : Attempt any **two** questions out of the following three questions. Each question carries **7½** marks. Very Short answer is required not exceeding **200** words.

$$7½ \times 2 = 15$$

6. Write a short note on Batch Production.

7. What is Economic order quantity? How is it calculated?

8. Discuss the objective of quality control.

Section - C

(Detailed Answer Questions)

Note : Attempt any **three** questions out of the following **five** questions. Each question carries **15** marks. Answer is required in detail. Graph paper may be supplied and calculator is allowed. $15 \times 3 = 45$

9. What do you understand by Production management? Explain the responsibilities of Production manager.

10. Discuss the principles of Product development.

11. "Plant location and layout are constantly changing to meet the changed requirements of production management." Discuss this statement.

12. What is Inventory control? Discuss its importance to Production department.

P.T.O.

13. An oil engine manufacturer purchases lubricants at the rate of Rs. 42 per piece from a vendor. The requirements of these lubricants are 1800 per year. What should be the economic ordering quantity per order, if the cost per placement of an order is Rs. 16 and inventory carrying charges per rupee per year is 20 paise?

(20516)

Roll No. ....

BBA-IV Sem.

18057

B.B.A. Examination, May 2016
PRODUCTION MANAGEMENT
(BBA-403)
(New)

Time : Three Hours]   *[Maximum Marks : 75*

Note : Attempt questions from all Sections as per instructions.

Section-A
(Very Short Answer Questions)

Attempt all the *five* questions of this Section. Each question carries 3 marks. Very short answer is required not exceeding 75 words.   3×5=15

1. Define plant layout and give its objectives.

2. What do you mean by production system?

3. What is JIT?

(2)

4. Explain briefly the process of scheduling of a job.

5. Mention any three drawbacks of inspection.

Section-B

(Short Answer Questions)

This Section contains three questions, attempt any *two* questions. Each question carries 7½ marks.

$$7\frac{1}{2} \times 2 = 15$$

6. Explain the benefit of TQM.

7. What is batch production? Explain its features and advantages.

8. Explain the basic steps in value analysis of inventory.

Section-C

(Detailed Answer Questions)

This Section contains five questions, attempt any *three* questions. Each question carries 15 marks. Answer is required in detail. Graph paper be supplied and calculator is allowed. $15 \times 3 = 45$

9. Explain the factors influencing plant location.

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(3)

10. Discuss the scope of materials management. What are the different levels of inventory to be controlled?

11. Explain the tools used in statistical quality control.

12. The result of inspection of 10 samples with its average and range are tabulated in the following table. Compute the control limits for the $\bar{\bar{X}}$ and R-chart and draw the control chart for the data.

SampleNo. (Samplesize5)	$\bar{X}$ (Mean)	R (Range)
1	7.0	2
2	7.5	3
3	8.0	2
4	10.0	2
5	9.5	3
6	11.0	4
7	11.5	3
8	4.0	2
9	3.5	3
10	4.0	2

(The values of various factors based on normal distribution are : $A_2 = 0.58$, $D_3 = 0$, $D_4 = 2.11$.)

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13. A Ltd. buys its annual requirement of 36,000 units in six instalments. Each unit cost Re. 1 and the ordering cost is Rs. 25. The inventory carrying cost is estimated at 20% of unit value. Find the total annual cost of the existing inventory policy. How much money can be saved by using Economic order quantity ?

N

(20517)

B.B.A.-IV Sem.

Roll No. ....

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B. B. A. Examination, May 2017

Production Management

(BBA-403)

(New)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from all Sections as per instructions.

Section-A

(Very Short Answer Questions)

Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words. 3×5=15

1. Distinguish between product layout and process layout.

2. Explain any three objectives of production management.

3. What is standardization of a product ?

4. What is quality circles ?

5. What are lead time and consumption rate of inventory control ?

Section-B
(Short Answer Questions)

Attempt any *two* questions out of the following three questions. Each question carries 7½ marks. Short answer is required not exceeding 200 words.

7½×2=15

6. Explain the objectives of control charts.

7. Explain the ABC analysis technique of inventory control.

8. What are the types of manufacturing systems ?

Section-C
(Detailed Answer Questions)

Attempt any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. Graph paper may be supplied and calculator is allowed. 15×3=45

9. Explain the need for selecting a suitable location of a plant.

10. Explain the process of product design and development for a new product.

11. Write short notes on any three of the following :
   (a) Average lead time
   (b) Safety stock
   (c) Reorder point
   (d) Total inventory cost.

12. The following are the inspection results of 10 lots, each lot being 300 items. Number defectives in each lot is 25, 30, 35, 40, 45, 35, 40, 30, 20 and 50. Calculate the average fraction defective and three sigma limit for P-chart and state whether the process is in control.

(20519)   Roll No. ....

Total Questions : 13]   [Printed Pages : 3

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B.B.A. IVth Semester Examination, May-2019

PRODUCTION MANAGEMENT

(BBA–403)

Time : 3 Hrs.]   [M.M. : 75

Note :– Attempt questions from all Sections as per
instructions.

Section–A

(Very Short Answer Type Questions)

Note :– Attempt all the _five_ questions. Each question carries
3 marks. Very short answer is required not
exceeding **75** words.

1. What is Routing ?

2. Define the term batch production.

NA–586   (1)   **Turn Over**

3. How do climate conditions and topography influence in plant location ?

4. What do you mean by Economic Lot Size ?

5. What do you mean by Quality Assurance ?

Section–B

(Short Answer Type Questions)

Note :– Attempt any *two* questions out of the following three questions. Each question carries 7½ marks. Short answer is required not exceeding **200** words.

6. What are the objectives of JIT production ?

7. Discuss the characteristics of intermittent system.

8. Explain the scope of production management.

Section–C

(Long Answer Type Questions)

Note :– Attempt any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. Graph paper may be supplied and calculator is allowed.

9. Define Production Planning. What are its constituents ? How can production planning be easy and effective ?

10. "In sellers market the expenditure on product research and development is a waste." Discuss.

11. What is plant layout ? Discuss the several types of layout with their advantages and disadvantages.

12. A manufacturer's requirement for a raw material is 8000 units a year. The ordering cost is ₹ 10 per order, while the inventory holding cost is 10% per year per unit of average inventory. For orders less than 4000 units, there is no discount on the purchase price of ₹ 1 per unit. But discount of 5% is available if order for 4000 units are placed and a discount of 10% for a single order of 8000 units.

Which of the three ways of purchase should the manufacturer adopt ?

13. Why quality control is to be done ? Mention its scope and advantages.