



Semester : 6^h Sem. IMBA
Batch : 2023-28
Subject : Research Methods
Subject Code : 16IMN602

Date : 08.04.2026
Class Test : II
Duration : 1 Hr.
Full Marks : 30

Section-A

1. Answer any four out of following questions. [4 x 2 = 8]
- a) State the use of Z-test and F-test. [CO3]
 - b) Define the term “critical value” in statistics. [CO3]
 - c) What is Factor analysis? [CO4]
 - d) What is the difference between One-way ANOVA and Two-way ANOVA? [CO3]
 - e) Differentiate between level of significance and level of confidence. [CO3]

Section-B

2. Answer any two questions out of following [2 x 6 = 12]
- a) A sample of size 36 is drawn randomly from a population and population S.D = 3, then find S.E of mean. [CO3]
 - b) A random sample of 200 electric bulbs was taken from a large consignment and 20 were found to be defective. Find the standard error of the proportion of defective bulbs in a sample. [CO3]
 - c) Write short notes on the following. [CO3]
 - (i) Importance of Chi-square test
 - (ii) Census and Sample survey

Section-C

3. Answer any one out of following questions. [1 x 10 = 10]
- a) A machine produced 30 defective articles in a batch of 500. After overhauling, it produced 10 defective articles in a batch of 300. Has the machine improved? (Z value at 5% level of significance and right- tailed test is 1.645) [CO3]
 - b) A group of 5 patients treated with medicine A is of weight 40,35,30,50 & 45 kgs. Second group of 7 patients from the same hospital treated with medicine B is of weight 35, 44, 55, 60,65, 69, & 63 kgs. Find whether there is any difference between medicines? (t_{tab} at 5% level of significance with d.f 10 is 2.228) [CO3]

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**BIJU PATNAIK INSTITUTE OF INFORMATION TECHNOLOGY
& MANAGEMENT STUDIES, BHUBANESWAR**

Semester : 6^h Sem. IMBA
Batch : 2023-28
Subject : Operations Management-II
Subject Code : 16IMN603

Date : 07.04.2026
Class Test : II
Duration : 1 Hr.
Full Marks : 30

Section-A

1. **Answer any four out of following questions.** [4 x 2 = 8]
- a) Write down the four objectives of plant layout. [CO2]
 - b) Which layout is best suited for mass production System? Give an example. [CO2]
 - c) Differentiate between most likely time and optimistic time in PERT. [CO2]
 - d) Explain the suitability of fixed location layout with an example. [CO2]
 - e) What are the different phases of project management? [CO1]

Section-B

2. **Answer any two questions out of following** [2 x 6= 12]
- a) Construct a project network for the following activities below and find the critical path and total project duration. [CO3]

Activity	Predecessors	Duration
A	---	4
B	A	6
C	A	5
D	B,C	7
E	C	4
F	D,E	3

- b) Differentiate the role of Project Manager & Operation Manager. Explain the role & responsibility of project manager in construction Industry. [CO3]
- c) A project has the following PERT activities time estimates. Calculate the expected time and Standard time for completion of Project. [CO3]

Activity	Optimistic Time	Most likely Time	Pessimistic Time
A	3	6	9
B	4	7	16
C	5	8	17

Section-C

3. **Answer any one out of following questions.** [1 x 10= 10]
- a) Explain the meaning and significance of plant location. How will you decide the best location of a mini cold drinks (Beverage) Plant in Odisha? [CO3]
 - b) Find out critical path and expected project completion time from the following information: [CO4]

Activity	Predecessors	Optimistic Time	Most likely Time	Pessimistic Time
A	---	5	5	11
B	---	2	3	10
C	---	3	6	15
D	A	2	5	8
E	A	2	3	4
F	A	2	6	10
G	B,C	2	3	10
H	C	5	5	5
I	D	3	3	9
J	E,G	7	8	9

All the Best

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**BIJU PATNAIK INSTITUTE OF INFORMATION TECHNOLOGY
& MANAGEMENT STUDIES, BHUBANESWAR**

**Semester : 6^h Sem. IMBA
Batch : 2023-28
Subject : Business Ethics
Subject Code : 16IMN605**

**Date : 08.04.2026
Class Test : II
Duration : 1 Hr.
Full Marks : 30**

Section- A

1. **Answer any four out of following questions.** [4 x 2 = 8]
- a) State any four objectives of Business ethics. [CO1]
 - b) What do you mean by insider trading? Why insider trading is illegal? [CO1]
 - c) How corporate culture influence Business ethics? [CO1]
 - d) Explain ethics in true advertising. [CO1]
 - e) Why ethics matter in business? [CO1]

Section-B

2. **Answer any two questions out of following.** [2 x 6= 12]
- a. What are the different factors affecting the business ethics? [CO2]
 - b. Why is ethical behaviour is important in the field of finance? [CO2]
 - c. Define ethical decisions. How they are made? [CO1]

Section-C

3. **Answer any one out of following questions.** [1 x 10= 10]
- a) Briefly explain the basic principles of business ethics? Examine the factor influencing Business Ethics. [CO2]
 - b) Define code of ethics. How do companies support ethical Behavior? How to respond to an ethical dilemma? [CO2]

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**BIJU PATNAIK INSTITUTE OF INFORMATION TECHNOLOGY
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**Semester : 6^h Sem. IMBA
Batch : 2023-28
Subject : Human Resource Management
Subject Code : 16IMN604**

**Date : 07.04.2026
Class Test : II
Duration : 1 Hr.
Full Marks : 30**

Section-A

- 1. Answer any four out of following questions. [4 x 2 = 8]**
- a) State any two functions of trade unions. [CO2]
 - b) State the pluralistic approach to IR. [CO2]
 - c) Collective bargaining is a process of mutual gain. Comment. [CO3]
 - d) Differentiate between Strike and lockout. [CO2]
 - e) Discuss the two-dimensional approach of Industrial Relations. [CO2]

Section-B

- 2. Answer any two questions out of following [2 x 6= 12]**
- a) Briefly highlight the causes of Industrial Dispute. Broadly explain the different types of disputes occurring in industries. [CO3]
 - b) Explain the following theories of Collective Bargaining: [CO3]
 - i. Chamberlain Model
 - ii. Hicks Bargaining Model
 - c) What is Trade Union? Elaborate the components of Trade Union Structure. Justify with examples. [CO4]

Section-C

- 3. Answer any one out of following questions. [1 x 10= 10]**
- a) Define Industrial Relations. Talk elaboratively about the 3 different approaches of Industrial Relations. [CO3]
 - b) Discuss the levels of Workers Participation in Management. How do you think WPM is implemented in industries? [CO4]



**BIJU PATNAIK INSTITUTE OF INFORMATION TECHNOLOGY
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Semester : 6^h Sem. IMBA
Batch : 2023-28
Subject : Financial Management-II
Subject Code : 16IMN601

Date : 07.04.2026
Class Test : II
Duration : 1 Hr.
Full Marks : 30

Section-A

- 1. Answer any four out of following questions. [4 x 2 = 8]**
- Gross Working Capital refers to 1. Total Assets, 2. Total Liabilities, 3. Total Current Assets, 4. Total Current Liabilities [CO2]
 - Which of these does not usually affect working capital requirement? 1. Operating Leverage, 2. Financial Leverage, 3. Both 1 and 2, 4. None of 1 and 2 [CO2]
 - Float Management is related to, 1. Cash Management, 2. Inventory Management, 3. Receivable Management, 4. Raw Material Management. [CO3]
 - The Transaction Motive for holding cash is for: 1. Safety Cushion, 2. Daily Operations, 3. Purchase of Assets, 4. Payments of Dividends. [CO3]
 - Cash Discount Term 3/15 net 40 means, 1. 3% Discount if payment in 15 days, otherwise full payment in 40 days, 2. 15% discount of payment in 3 days, otherwise full payment in 40 days, 3. 3% interest if payment made in 40 days and 15% interest thereafter, 4. None of the above. [CO3]

Section-B

- 2. Answer any two questions out of following [2 x 6= 12]**
- Explain the objective of credit policy of the firm. [CO3]
 - Find out the optimum cash balance as per Baumol's Model for the following: [CO3]
 Annual Cash Needed- Rs.2, 40,000
 Transaction Cost – Rs.100 per conversion
 Interest Rate – 12% p.a.
 What are the opportunity cost of holding cash, the transition cost and the total cost.
 - Explain the term Cash Credit and Bank Overdraft. [CO4]

Section-C

- 3. Answer any one out of following questions. [1 x 10= 10]**
- The credit manager of ABC Ltd had to decide on a proposal for liberal extension of credit which would result in a slowing process of average collection period from one to two months. The company's product was sold for Rs.20 per unit, of which Rs.15 represented variable cost (including credit department cost). The current actual sales amounted to Rs.14 lakhs represented entirely by credit sales. The average total cost per unit was Rs.18. the relaxation in credit policy was expected to result in 25% increase in sales i.e. Rs.30 lakhs annually. The corporate management aimed at a return of 25% on additional investment.
 You are required to make relevant calculation to help the credit manager in examining the financial implication of liberalizing the credit policy. [CO3]
 - What do you mean by Factoring as a way of financing current assets? Explain in detail. [CO4]