

B. Com (Pass) / BBA (Gen) /BBA (HA)/ BBA –MBA (Int.), 2nd Semester (Reappear)

Business Management / Principles of Management

Paper Code: - 06020201, 06040201, 06050201, 06110201

END TERM THEORY EXAMINATION

Time: 03:00 Hrs

Max. Marks: 75

Instructions:

1. Write Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided with correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint in this regard will be entertained thereafter.
3. Attempt 5 Questions in all. Q. No. 1 is compulsory. Students are required to attempt other FOUR questions selecting one from each unit. Marks are indicated against each question.
4. Draw diagram wherever required.

- Q.1. Answer the following Questions. (15)
- a) Learning Organization.
 - b) Modern approach of management.
 - c) Management vs. Administration.
 - d) Types of decision making.
 - e) Formulation of strategic plan.
 - f) Downsizing & smart sizing.
 - g) Transactional vs. Transformational Leadership.
 - h) Knowledge Management.

UNIT-I

- Q.2. Explain different contribution of Drucker & Porter in management. (15)

OR

- Q.3. Explain the evolution of management with reference to different thinkers of classical & neo classical approach. (15)

UNIT-II

- Q.4. Explain various types of decision also the process of decision making. (15)

OR

- Q.5. Define various types of corporate strategy. Write a brief note on growth strategy. (15)

UNIT-III

- Q.6. Explain project. matrix and networking organizational structure with its merits & demerits. (15)

OR

- Q.7. Describe communication process also explain its types and barriers. (15)

UNIT-IV

- Q.8. Explain different theories and style of leadership. (15)

OR

- Q.9. Define Motivation. Explain Maslow, Herzberg, McGregor and Ouchi theory of motivation. (15)

Roll No. _____

B.Com(Pass)/BBA(GEN)/BBA(HA)/BBA-MBA(Int.) - 2ND SEMESTER(RE.)
FINANCIAL ACCOUNTING – 6020202/6040202/6050202/6110202
END TERM THEORY EXAMINATION

TIME: 03: 00 Hrs.

Max. Marks: 75

INSTRUCTIONS:

1. Write your Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided with the correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter;
3. Attempt **five (5)** questions in all and Question No. 1 is compulsory.
4. Students are required to attempt four questions selecting one question from each unit in addition to Q. No.1. All question carry equal marks.
5. Draw diagram whenever required.

Q.1	Answer all the following questions:	
(a)	How will you deal with 'Goods in Transit' under direct method in Branch account?	(02)
(b)	Define Sacrificing ratio. What is the formula for calculating Sacrificing ratio	(02)
(c)	What do you mean by cash price?	(02)
(d)	Name out three methods of valuation of goodwill.	(02)
(e)	Write two difference between Current and Noncurrent Liabilities.	(02)
(f)	What do you mean by Accounting Standard?	(02)
(g)	What do you mean by Corporate Dividend Tax (CDT).	(02)
(h)	What do you mean by Partnership?	(01)
	UNIT-I	
Q.2	<p>(A) Calculate the amount of interest paid each year from the following information :</p> <ul style="list-style-type: none"> • Cash price –Rs 620000 • Four annual instalment of Rs. 200000 each commencing from the date of signing of the agreement • Assume that sales were made at the beginning of the year. <p>(B) Calculate the cash price of the asset in the following case :</p> <ul style="list-style-type: none"> ▪ Cash down payment Rs 166000 ▪ Four annual instalments of Rs 221900, Rs 206050, Rs 190200, and Rs 174350 commencing from the end of the first Year. ▪ Rate of interest charged by the vendor—10%. 	(5+5)
	OR	
Q.3	What journal entries are to be made in the books of hire purchaser and the vendor when vendor takes possession of the goods on default of the payment of instalment by hire purchaser?	(15)

Unit II		
Q.4	<p>A. X and Y are partner sharing profit in the ratio of 3:2. Z was admitted with $\frac{1}{4}$ share in profits which he acquires equally from X and Y. The new ratio will be:</p> <p>B. X and Y are partners sharing profit in the ratio 4:3. Z join partnership for $\frac{2}{7}$th shares in the profit (of which he acquires $\frac{3}{4}$ from X and $\frac{1}{4}$th from Y). Z brings in Rs 300000 for his capital and Rs 120000 for goodwill. Half of the amount of goodwill is withdrawn by the old partners.</p>	(15)
OR		
Q.5	What do you mean by Goodwill? Explain the characteristic and factors affecting the value of Goodwill.	(15)
UNIT III		
Q.6	Write down the details of Accounting standard-2 with regard to Stock Valuation.	(15)
OR		
Q.7	What do you mean by depreciation? Why do we provide depreciation? Write in detail the depreciation methods.	(15)
UNIT IV		
Q.8	Give a complete format of Profit and loss Account, and Balance Sheet of a company as per Revised Schedule VI of companies Act 2013.	(15)
OR		
Q.9	<p>Write short notes on the following:-</p> <ul style="list-style-type: none"> • Share capital • Fixed assets • Current liabilities 	(5+5+5)

*****ETE MAY 2018*****

RE

Roll No. _____

**B.COM (Pass)/BBA(G)/BBA-MBA(Int.)- 2ND SEMESTER
BUSINESS ECONOMICS-II, 06020204/6040204/6110204
END TERM THEORY EXAMINATION**

Time: 03:00 Hrs

Max.Mark: 75

INSTRUCTIONS:-

1. Write your Roll no. on the Question paper.
2. Candidate should ensure that they have been provided with the correct question paper. Complaint(s) in this regards, if any should be made within 15 minutes of the commencement of the exam. No complaints will be entertained thereafter.
3. Attempt five (5) question in all. Question no. 1 is compulsory. Attempt remaining four questions selecting one from each unit. Marks are indicated against each.
4. Draw Diagram wherever required.

Q.1 Explain the following:

- a) What is producer Surplus? (2)
- b) What is monopoly market?. (2)
- c) Explain second degree price discrimination. (2)
- d) Define transfer pricing. (2)
- e) What is nominal rate of interest? (2)
- f) What is transfer earning? (2)
- g) Explain quasi rent? (2)
- h) Define marginal revenue product of labour (MRPL). (1)

UNIT-I

Q.2 Critically examine concept of producer surplus and also explain its applications. . (15)

OR

Q.3 How the tax and subsidy affects the consumer and producer surplus? Show with the help of relevant diagram. (15)

UNIT-II

Q.4 Describes the properties of the sales maximization model. Do you consider this to be a good alternative to the profit maximization model? (15)

OR

Q.5 Discuss the conditions under which price discrimination is possible and profitable. Distinguish between first, second and third degree of price discrimination. (15)

UNIT-III

Q.6 State and critically examine the marginal productivity theory of factor pricing. (15)

OR

Q.7 Draw the supply curve of labour and also explain why it is backward bending. (15)

UNIT-IV

Q.8 What is economic rent and explain the situation when economic rents arise? How economic rent is different from Quasi rent? (15)

OR

Q.9 What is interest? How the time preference affects the interest rate? (15)

B. Com (Pass)/ BBA(Gen)/BBA (HA) /BBA-MBA (Int.), 2nd Semester (Reappear)
Business Law - 06020205/06040205/06050205/06110205
END TERM THEORY EXAMINATION

Time: 03:00 Hrs

Max. Marks: 75

Instructions:

1. Write Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided with correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint in this regard will be entertained thereafter.
3. Attempt 5 Questions in all. Q. No. 1 is compulsory. Students are required to attempt other FOUR questions selecting one from each unit. Marks are indicated against each question.
4. Draw diagram wherever required.

Q.1. Answer the following Questions.

- a) Explain Types of contracts. (2)
- b) What is Law of agency? (2)
- c) What is irrevocable agency? (2)
- d) Explain duties of bailee & bailor. (2)
- e) Explain incapacity to contract. (2)
- f) Differentiate sub-agent and substituted agent. (2)
- g) Explain Delegation of authority to agent. (2)
- h) What do you understand by Quasi Contract? (1)

UNIT-I

Q.2. What do you understand by Valid contract? Explain all the essentials of a valid contract. (15)

OR

Q.3. "An agreement without consideration is void" Discuss it with the concept of communication of offer and acceptance. (15)

UNIT-II

Q.4. Define free consent. Explain, under which circumstances it is not being considered as free consent. (15)

OR

Q.5. What do you understand by discharge of contract? Explain various method of discharge with remedies for breach of contract. (15)

UNIT-III

Q.6. Describe the contract of bailment and pledge. How termination of bailment can be done. What are the rights of finder of lost goods. (15)

OR

Q.7. What are the different types of guarantee available. Explain surety's rights & liabilities. (15)

UNIT-IV

Q.8. Who will be the principal and agent? Explain the rights and duties of principal and agent. (15)

OR

Q.9. Explain various methods of creation of agency with termination of agency and its effects. (15)

B. Com (Pass) / BBA (Gen) / BBA (HA) / BBA (MBA) 2nd Semester (Reappear)
Computer Fundamentals – 06020206 / 6040206 / 06050206 / 06110206
END TERM THEORY EXAMINATION

Time: 03:00 Hrs

Max. Marks: 50

Instructions:

1. Write Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided with correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint in this regard will be entertained thereafter.
3. Attempt 5 Questions in all. Q. No. 1 is compulsory. Students are required to attempt other FOUR questions selecting one from each unit. Marks are indicated against each question.
4. Draw diagram wherever required.

- Q.1. Answer the following Questions. (2X5=10)**
- a) Header
 - b) Footer
 - c) Mail Merge
 - d) Payroll Statements
 - e) Templates

UNIT-I

- Q.2. Explain the steps involved in creating a new word file. Also explain some word processing features. (10)**

OR

- Q.3. Can you insert a table in word processing document; if yes then explain the steps. (10)**

UNIT-II

- Q.4. What is a spreadsheet? How to create a worksheet. (10)**

OR

- Q.5. Explain different types of charts. (10)**

UNIT-III

- Q.6. Explain any 5 mathematical functions in spreadsheet. (10)**

OR

- Q.7. Explain any 5 logical functions in spreadsheet. (10)**

UNIT-IV

- Q.8. Write the steps to create a power point presentation. (10)**

OR

- Q.9. Explain set up row and rehearse timings. (10)**

B. Com (Pass) / B. Com (Hons) / BBA (Gen) / BBA (HA) – 2nd Semester
Environmental Science -6020207 / 6070208/ 6040207 / 6050214
End Term Theory Examination

Time: 03:00hrs

Max Marks: 60

Instructions:-

1. Write your Roll No on the Question paper.
2. Candidate should ensure that they have been provided with the correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam; no complaint (s) will be entertained thereafter.
3. Attempt all parts. Marks are indicated against each question.

Part-A (Objective Type)

Attempt all the questions:

(30X1=30)

- Q.1** The primary objective of environmental study is to
- a) Generate an environment-friendly mindset among all classes of people
 - b) Enjoy economic growth at the cost of quality of human life
 - c) Realize the value of biodiversity by increased environmental ethics among all classes of people
 - d) Get a holistic view for the sustenance of life on the earth on an infinite scale.
- Q.2** An environmental information system is an essential part of any government at
- a) Only local level
 - b) Local and international level
 - c) National, international and local level
 - d) National and local level
- Q.3** Equity and social justice are essential components of
- a) Value education
 - b) Conservation of biodiversity
 - c) Human rights
 - d) Environmental ethics

Q.4 Match the followings

List I

- i. Pesticides
- ii. Nitrogen fertilizers
- iii. Radioactive waste
- iv. Light pollution

List II

1. Biological clock disturbances
2. Agriculture
3. Blue baby syndrome
4. Nuclear energy

- a) i-3, ii-4, iii-1, iv-2
- b) i-2, ii-3, iii-4, iv-1
- c) i-4, ii-1, iii-2, iv-3
- d) i-2, ii-3, iii-1, iv-4

Q.5 Match the followings

List I

- i. Earth Day
- ii. Environment Day
- iii. Water Day
- iv. Wetland Day

List II

1. 2nd February
2. 22nd March
3. 22nd April
4. 5th June

- a) i-3, ii-4, iii-1, iv-2
- b) i-3, ii-4, iii-2, iv-1
- c) i-4, ii-1, iii-2, iv-3
- d) i-4, ii-3, iii-1, iv-2

- Q.14** I. National parks are a type of In-situ conservation.
II. National parks are made to conserve biodiversity on its original place.
- I is correct and II is correct explanation for A.
 - I is correct and II is not the correct explanation for A.
 - I is wrong and II is correct explanation for A.
 - Both I and II are wrong.

Q.15 Arrange in sequence the following stages of Food Chain.

- Grass
- Hawk
- Frog
- Snake
- Grasshopper

- 1, 3, 5, 4, 2
- 1, 5, 3, 4, 2
- 2, 4, 3, 5, 1
- 4, 2, 1, 2, 3

Q.16 Arrange the following green house gases according to their contribution in global warming.

- Methane
- Nitrous Oxide
- Carbon dioxide
- Chlorofluorocarbons

- 1, 2, 3, 4
- 2, 3, 4, 1
- 3, 1, 2, 4
- 4, 1, 2, 3

Q.17 Arrange the following Environmental Acts in chronological order.

- Air (Pollution and prevention) Act
- Water (Pollution and prevention) Act
- Environmental (Protection) Act
- Forest (Conservation) Act

- 2, 4, 1, 3
- 1, 3, 2, 4
- 3, 4, 1, 2
- 4, 2, 3, 1

Q.18 Arrange the protective areas in increasing order according to their size in area

- Biosphere Reserve
- Zoo
- National Park
- Wildlife sanctuary

- 2, 4, 3, 1
- 1, 3, 2, 4
- 3, 1, 4, 2
- 4, 2, 3, 1

Q.19 Arrange the fuels according to their calorific value (in decreasing order)

- Coal
- Petrol
- Hydrogen
- Wood

- 2, 4, 1, 3
- 1, 3, 2, 4
- 3, 2, 1, 4
- 4, 2, 3, 1

Q.20 Arrange the following as per the forest density in decreasing order

- Tropical rain forests
- Grasslands
- Deserts
- Temperate forests

- 1, 2, 4, 3
- 1, 4, 2, 3
- 3, 2, 4, 1
- 4, 3, 2, 1

- Q.21 Major water pollution source is
 a) Industry
 b) Sewage
 c) Agricultural runoff
 d) Thermal Power Plants
- Q.22 The major environmental issue is
 a) Population
 b) Pollution
 c) Solid waste
 d) All of the above
- Q.23 Excess nitrates in the food come through
 a) Fertilizers in agriculture
 b) Selling of pesticide
 c) Storage of food
 d) None of the above
- Q.24 Environmental study is a subject that encompasses
 a) All branches of science only
 b) Only social science
 c) Branches of science and social science
 d) All branches of science, arts and social science.
- Q.25 The heat of the interior of the earth present at the volcanic regions, geysers or hot springs is called
 a) Geothermal energy
 b) Dendrothermal energy
 c) Nuclear energy
 d) Wind energy
- Q.26 The equitable use of resources is necessary for
 a) Sustainable Development
 b) Better lifestyle for all
 c) To sustain natural wealth
 d) All of the above
- Q.27 The importance of ecosystem lies in
 a) Transfer of food
 b) Flow of energy
 c) Cycling of materials
 d) Both B and C
- Q.28 The ozone layer of atmosphere lies in
 a) Troposphere
 b) Stratosphere
 c) Mesosphere
 d) Thermosphere
- Q.29 Which one of the following is not a renewable source of energy
 a) Wood
 b) Petroleum
 c) Tidal energy
 d) Wind energy
- Q.30 Smog is an odd combination of
 a) Smoke and mist
 b) Mist and fog
 c) Smoke and fog
 d) Smoke, fog and mist

PART - B (DESCRIPTIVE TYPE)

Attempt any SIX from the following questions:

(6 X 5=30)

- Q.1 Write a short note on the environment of the earth?
- Q.2 Write a note on equitable use of resources required for a sustainable lifestyle?
- Q.3 Describe forest ecosystem?
- Q.4 What are the major threats to biodiversity? Discuss.
- Q.5 How do you define water pollution? Give different types of water pollution?
- Q.6 "Population explosion threatens the global environmental balance" Justify the statement.
- Q.7 Write a note on
 a) Waste management
 b) Noise pollution
- Q.8 Describe briefly:
 a) Recycling of waste
 b) Consumerism

*****ETE MAY 2018*****

B. Com (Pass) / BBA (Gen) / BBA (HA) / BBA-MBA (int.) 2nd Semester (REAPPEAR)
Environmental Science - 6020207 / 6040207/ 6050207/ 6110207
END TERM THEORY EXAMINATION

Time: 3:00 Hours

Max Marks: 80

Instructions:

1. Write your Roll no. on the Question paper.
2. Candidate should ensure that they have been provided correct question paper. Complaints in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint(s) will be entertained thereafter
3. Attempt all questions. Marks are indicated against each question.
4. Draw diagram wherever required

PART-I

Answer all the following questions (Very Short Answer type questions)

- Q.1** Define the following terms: **(2X5=10)**
- a) Lithosphere
 - b) Food web
 - c) Ecological succession
 - d) Biomagnifications
 - e) Foot-print
- Q.2** What is Sustainable development **(1)**
- Q.3** What is Smog **(1)**
- Q.4** What is consumerism **(1)**
- Q.5** What is population explosion **(1)**
- Q.6** What is e-waste **(1)**
- Q.7** What is a pollutant **(1)**
- Q.8** Match the following: **(4)**

List I

- (a) Acid rain
- (b) Photochemical smog
- (c) CO₂ Combination with
- (d) Depletion of ozone layer

List II

- (1) CFC_s
- (2) Hemoglobin
- (3) Hydrocarbons
- (4) SO₂ and NO₂

PART-II

Answer any EIGHT of the following questions: (Short Answer type questions) **(8X5=40)**

- Q.1** What are ecological pyramids? Explain different types of ecological pyramids with suitable diagrams.
- Q.2** What are the adverse effects of mining activities? Explain with case studies.
- Q.3** What is solid waste? Write in detail about Solid Waste Management.
- Q.4** What is Biodiversity? Explain its In-Situ and Ex-Situ conservation strategies.
- Q.5** What are Global Warming and its harmful impacts?
- Q.6** Explain Bhopal Gas Tragedy?

- Q.7** Give a detailed account of Environmental Legislation in India, especially in context with Environment (Protection) Act, 1986.
- Q.8** Differentiate between Renewable and Non- renewable Energy Resources?
- Q.9** Write a short note on the energy problem related to urban people.
- Q.10** Explain ozone layer depletion

PART-III

Answer any TWO of the following questions (Long Answer type questions) (2X10 =20)

- Q.1** Why Environmental Studies is a Multi-disciplinary subject? Why there is need for public awareness?
- Q.2** Write a note on Forest Resources, their types and uses; with effects of deforestation?
- Q.3** Write a detailed description of water pollution along with the strategies that can be adopted for decreasing it?
- Q.4** Describe various roles of information technology in the protection of human health and the environment?

*****END TERM THEORY EXAMINATION*****

Roll No. _____

B.com (Pass), B.com (H), BBA (HA), BBA (G) - SEMESTER-II
(BUSINESS COMMUNICATION – 6020208/06070209/ 6050211/6040212)
END TERM THEORY EXAMINATION

Time: 03:00 Hrs

Max. Marks: 60

Instructions:

1. Write Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided with correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint in this regard will be entertained thereafter.
3. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Draw diagram wherever required.

PART – A (OBJECTIVE TYPE QUESTIONS OMR SHEETS)

- Q.1. Which of these is an example of open positive body language? (1)
a) Indirect eye contact b) folded arms
c) Enthusiastic hand gestures d) keeping facial
- Q.2. When preparing for your presentation, what should you know? (1)
a) Your purpose b) your audience c) your situation d) all of the above
- Q.3. What types of gestures should you try to avoid? (1)
a) Ones that send mixed signals with your hands
b) Ones that is not appropriate for you
c) Ones that look contrives
d) all of the above
- Q.4. In an interview when you do not know an answer, you should: (1)
a) keep guessing b) bluff
c) admit you do not know the answer d) remain quiet
- Q.5. He suggested that, we should be bound by a code of conduct isn't it? (1)
a) Shouldn't we b) is it c) aren't we d) none of above
- Q.6. Through we have sorted out our differences, she still keeps....me, Marx said dolefully. (1)
a) Going with b) going on c) going for d) going at
- Q.7. Shethe repot indignantly. (1)
a) cast away b) cast aside c) cast down d) cast off
- Q.8. Knowing his immaculate driving skills, it is hard to imagine how the accident.... (1)
a) came across b) came about c) came along d) came apart
- Q.9. The terrorist might now try to....historical monuments. (1)
a) blow up b) blow out c) blow over d) blow off
- Q.10. Let's not waste any time now and business straightway. (1)
a) get off b) get into c) get down to d) get over

- Q.25. Exact statement of meaning..... (1)
 a) Determine b) dictionary c) decency d) definition
- Q.26. To take part in an activity. (1)
 a) Payment b) participate c) pause d) pacify
- Q.27. The place where two or more roads or railway lines meet..... (1)
 a) Justice b) junk c) junction d) majesty
- Q.28. The data.....now ready for analysis. (1)
 a) is b) are c) am d) too
- Q.29. Many a flower.....born to blush unseen. (1)
 a) is b) are c) am d) more
- Q.30. The poet and philosophermy friend. (1)
 a) am b) is c) are d) many

PART – B (DESCRIPTIVE TYPE)

- Q.1. Answer the following questions (Attempt any 3) (5x3=15)
 a. Pick the correct word and fill in the blanks.
 i. Maradona is one of the most.....football player in the history of the sport.
 (famous/unpopular)
 ii. I know the....of the song but I do not remember the lyrics. (music/tune)
 iii. The actor assembled on the.....for the final curtain call. (stage/street)
 iv. The clown from the circus....tricks for the audience every evening.
 (rehearses/perform)
 v. We were.....by the band performance in the concert.(applauded/entertained)
- b. Write a paragraph on the following topic (150 words).
 Pocket money: how much do you get-how much do you need.
- c. Write an essay on the following topic (150 words).
 Why should people speak English?
- d. Mention the difficulties in direction of communication and offer suggestions for overcoming them.
- Q.2. Write short notes on the following topics: (3x5=15)
 a) Proxemics
 b) Body language
 c) Indianisms in written correspondence
 d) Importance of communication
 e) Semantic barriers

B.Com (Pass) / B. Com (Hons) / BBA (Gen) / 2nd Semester
BUSINESS STATISTICS – 6020209, 6070203, 6040210,
END TERM THEORY EXAMINATION

Time: 3 Hrs

Max. Marks: 60

Instructions:

1. Write Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided with correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint in this regard will be entertained thereafter.
3. Parts of a question should be attempted in sequential order. Marks are indicated against each question.
4. Draw diagram wherever required.

PART – A (OBJECTIVE TYPE QUESTIONS OMR SHEETS)

- Q.1. In quartiles, central tendency median to be measured must lie (01)
 a) First quartile b) Third quartile c) Second quartile d) Fourth quartile
- Q.2. Arithmetic mean is 12 and number of observations are 20, the sum of all values is (01)
 a) 8 b) 240 c) 32 d) 1.667
- Q.3. What is the probability of throwing a number greater than 3 with an ordinary die whose face are numbered from 1 to 6: (01)
 a) $\frac{3}{4}$ b) $\frac{1}{2}$ c) 2 d) $\frac{1}{4}$
- Q.4. The coefficient of correlation: (01)
 a) has no limits b) can be less than 1 c) can be more than 1 d) varies between ± 1
- Q.5. When coefficient of skewness is zero, the distribution is (01)
 a) J-shaped b) U-shaped c) Symmetrical d) None of these
- Q.6. Coefficient of variation is calculated by the formula: (01)
 a) $\frac{\bar{x}}{\sigma} \times 100$ b) $\frac{\bar{x}}{\sigma}$ c) $\frac{\sigma}{\bar{x}} \times 1000$ d) $\frac{\sigma}{\bar{x}} \times 100$
- Q.7. Range is the best measure of dispersion (01)
 a) True b) False c) May be True d) None of these
- Q.8. One of the methods of determining mode is (01)
 a) mode=2median-3mean b) mode= 2median+3mean
 c) mode= 2median-2mean d) mode= 3median-2mean
- Q.9. Measure of central tendency cannot be computed graphically (01)
 a) Median b) Mode c) Mean d) All of these
- Q.10. If an event cannot take place, the probability will be (01)
 a) +1 b) -1 c) 0 d) None of these

- Q.11. Additional theorem states that if two events A and B are mutually exclusive, the probability of occurrence of either A and B is given by
 a) $P(A)+P(B)$ b) $P(B)\times P(A)$ c) $P(A)-P(B)$ (01)
 d) $P(A)+P(B)-P(A \cup B)$
- Q.12. The standard deviation of binomial distribution is:
 a) \sqrt{npq} b) npq c) np d) $n^2p^2q^2$ (01)
- Q.13. Quartiles divides the series into how many equal parts
 a) Two b) Three c) Four d) Five (01)
- Q.14. Which graph is used to find median
 a) Histogram b) Ogives c) Bar Diagram d) None of these (01)
- Q.15. A coefficient of correlation is computed to be -0.95 means that
 a) The relationship between two variables is weak. (01)
 b) The relationship between two variables is strong and positive.
 c) The relationship between two variables is strong but negative
 d) Correlation coefficient cannot have this value
- Q.16. Which of the following describe the middle part of a group of numbers?
 a) measure of variability b) measure of central tendency c) measure of association (01)
 d) measure of shape
- Q.17. The weight of students in a college/school is a
 a) Discrete variable b) Continuous variable c) Qualitative variable d) None of these (01)
- Q.18. The data which have already been collected by someone are called
 a) Primary b) Secondary c) Individual d) None of these (01)
- Q.19. The mean deviation of the values 18, 12, 15 is
 a) 6 b) 0 c) 3 d) 2 (01)
- Q.20. The difference between the largest and the smallest data values is the
 a) Variance b) Interquartile range c) Range d) Mean (01)
- Q.21. The standard deviation of a sample of 100 observations equals 64. The variance of the sample equals
 a) 8 b) 10 c) 6400 d) 4096 (01)

- Q.22. Maximum value of correlation is (01)
 a) 2, b) 1.5 c) 1 d) 0
- Q.23. Spearman's method is the method of calculating coefficient of correlation by (01)
 a) Irvin Fischer b) Charles Spearman c) Lorenz d) Karl Pearson
- Q.24. In case there is no relation between two variables, value of coefficient of correlation will be (01)
 a) -2 b) 1 c) 2 d) 0
- Q.25. In case of calculation of correlation
 List-I List-II
 i) Scatter diagram a) Actual figures
 ii) Pearson method b) Graphic method
 iii) Spearman method c) Ranking (01)
 a) i-a, ii-b, iii-c b) i-b, ii-a, iii-c c) i-b, ii-c, iii-a d) i-c, ii-b, iii-a
- Q.26. We can measure the cause and effect relationship by the help of (01)
 a) Time series analysis b) Cross-sectional analysis
 c) Correlation analysis d) Regression analysis
- Q.27. If the two regression coefficient are 0.8 and 0.2, then the value of coefficient of correlation is (01)
 a) 0.16 b) -0.40 c) -0.16 d) 0.40
- Q.28. Which formula may be used for calculation of coefficient of correlation? (01)
 a) $x = b_{yx} \times b_{xy}$ b) $r = \sqrt{b_{yx} \times b_{xy}}$ c) $r = \sqrt{b_{yx} + b_{xy}}$ d) None of these
- Q.29. 5C_2 is equal to (01)
 a) 20 b) 10 c) 30 d) 100
- Q.30. When $\beta_2 < 3$, the distribution is (01)
 a) Leptokurtic b) Platykurtic c) Mesokurtic d) None of these

PART - B (DESCRIPTIVE TYPE)

Short Answer Types Questions (Attempt any THREE questions)

- a) Explain the different types of charts and graphs. (05)
- b) What are the properties of arithmetic mean? Also, give its merits and demerits. (05)

c) Determine the median from the following class intervals:

(05)

C.I.	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	14	16	17	15	14	19	21	22	18

d) Compute the standard deviation for the data given below:

Income (Rs)	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No. of persons	6	12	18	13	9	4	1

e) Define the concept of Probability. Also define addition & multiplication theorem of Probability.

(05)

Long Answer Types Questions (Attempt any ONE questions)

(15)

a) The following data gives the experience of machine operators and their performance rating as given by number of good parts out of 100 pieces.

Operator	1	2	3	4	5	6	7	8
Experience (Years)	16	12	18	4	3	10	5	12
Performance	87	88	89	68	78	80	75	83

Calculate the regression line of performance ratings on experience and estimate the probable performance of an operator having 7 years experience.

b) The following table shows the sales and expenditure in sales promotion schemes of a company for the past 10 yrs. Find the coefficient of correlation between sales and expenditure.

Year	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Sales (in thousand Rs.)	20	25	35	32	40	44	48	50	55	60
Expenditure (in thousand Rs.)	220	280	300	270	350	325	400	375	360	

**B.Com(Pass) BBA (Gen.) BBA-MBA (Int.) – 2nd SEM. EXAMINATION;
(Subject-BUSINESS MATHEMATICS-II,
Paper Code 0602203, 06040203, 06110203) (RE)**

Time: 3 hours

Max Marks: 75

Instructions:-

1. Write Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided with correct question paper. Complaint (s) in this regard. If any, should be made within 15 minutes of the exam. No complaint in this regard will be entertained thereafter.
3. Attempt 5 Questions in all. Q.No. 1 is compulsory. Attempt remaining four questions out of unit 1-4 selecting one question from each unit. Marks are indicated against each question.
4. Draw diagram wherever required.

Q.1. **Define Following: -**

- a) If $A = \text{diag}(2, -2, 3)$ and $B = \text{Diag}(3, 4, -1)$, find $3A + 2B$ (2)
- b) Give example of two non zero matrix A and B such that $AB = 0$ (2)
- c) Define singular and Non singular matrices. (2)
- d) Evaluate $\int x \log x \, dx$ (2)
- e) If $MR = \frac{3}{(x+2)^2} + 6$, find total revenue function and Demand function. (2)
- f) The rate of interest on a term deposit is 10% p.a compounded quarterly. What is the effective rate of interest? (2)
- g) Define consumer's surplus area Producer's surplus. (2)
- h) What is optimal Solution in linear Program? (1)

UNIT-I

- Q.2. (a) Given the following equation for two related markets A and B. find the equilibrium Quantities and prices in each market: (7)
 $X_d(A) = 82 - 3P_A + P_B$, $X_s(A) = -5 + 15P_A$
 $X_d(B) = 92 - 2P_A - 4P_B$, $X_s(B) = -6 - 32P_B$
- (b) Given the following national Income Model (8)
 $\gamma = C + I + G$
 $C = a + b(\gamma - T)$
 $T = d + t\gamma$
 Where $\gamma = \text{national income}$, $c = \text{consumption expenditure}$
 $T = \text{Tax Collection}$, $t = \text{Tax rate}$
- (i) Write above equation in matrix form
 (ii) Solve for the endogenous variable

Or

- Q.3. The equilibrium condition for three related markets is given by (15)
 $P_1 = \frac{2}{3} P_2 - P_3 + \frac{2}{3}$
 $P_2 = \frac{17}{6} P_1 + \frac{5}{6} P_3 - \frac{1}{3}$
 $P_3 = P_2 - P_1 - 4$

Find the equilibrium price for each market, using Cramer's' Rule.

UNIT-II

- Q.4. (a) A plant producer x tones of steel per week at the total cost of Rs $(x^3 - 3x^2 + 50x + 300)/(10)$ if the market price is fixed as Rs $\frac{100}{3}$, find the permit maximizing output of the plant and maximum profit. Will the firm continue production? (7)
- (b) If the marginal cost of a product is equal to half of its average cost, show that fixed cost is zero. If the cost of producing a units of the product is 60. Find the total cost. (8)
- Or**
- Q.5. (a) Find the consumer's surplus and producer's surplus under pure competition. For the demand function $p=28-5x+\frac{x^2}{4}$ and supply function $p=5x+\frac{x^2}{4}$, where p is the price and x is quantity. (7)
- (b) The PQR has approximated the marginal revenue function for one of its product by $MR=20x-2x^2$ and marginal cost $MC=81-16x+x^2$. Determine the profit at optimum level assuming fixed cost as zero. (8)

UNIT-III

- Q.6. (a) A money lender charges interest at the rate of 10 paisa per rupee per month, payable in advance. What effective rate of interest does he charge per annum? (8)
- (b) Find the present Value of an annuity of Rs 6000 per year for 20 years, when the rate of interest is 5% p.a. compounded annually. (7)
- Or**
- Q.7. (a) If Rs 3000 is deposited each year in a saving bank account paying 9% interest p.a compounded continuously. Find the sum of after 6 years. (7)
- (b) A bank pay interest at the rate of 6% p.a compounded continuously. Find how much should be deposited in the bank each year in order to accumulation 6000 in 3 years. (8)

UNIT-IV

- Q.8. (a) Maximize $Z=18x+15y$, subject to (7)
- $$2x+5y \leq 30$$
- $$X+2Y \leq 24$$
- $$4X+2Y \leq 20$$
- and $x \geq 0, y \geq 0$
Solve, by graphical Method
- (b) A machine producing either product A or B can produce A by using 2 units of chemical and 1 Unit of a compound and can produce B by using 1 unit of chemicals and 2 units of a compound. Only 800 units of chemicals and 1000 units of compound are available. The profits available per unit of A and B are Rs 30 and Rs 40 respectively. Draw a suitable diagram to show the feasible region also find the optimum allocation of

units between A and B to maximize project. Find the maximum profit. (8)

Or

Q.9 (a) Minimize $Z = 16x + 25y$, subject to $2x + y > 7$, $x + y > 5$, $2x + 5y > 16$ and $x > 10$, $y > 0$ by graphical method. (7)

(b) A retailer deals in two item only item A and item B. He has Rs 30,000 to invest and a space to store at the most 60 pieces. An item A costs him Rs 2,500 and B costs him Rs 500. A net profit to him on item A is Rs 500 and on B is Rs 150. If he can sell all the items that he purchases, how should he invest his amount to have maximum profit. (8)

Roll No. _____

**B.Com(Hons.)/B.Com(Pass)/BBA(G)/BBA(HA) - 2nd SEMESTER
INFORMATION TECHNOLOGY-I / BUSINESS INFORMATICS**

6070211/6020210/6040213/6050212

END TERM THEORY EXAMINATION

Time: 03:00 Hrs

Max. Marks: 60

Instructions:

1. Write Roll No. on the Question Paper.
2. Candidate should ensure that they have been provided with correct question paper. Complaint(s) in this regard, if any, should be made within 15 minutes of the commencement of the exam. No complaint in this regard will be entertained thereafter.
3. Marks are indicated against each question.
4. Draw diagram wherever required.

PART – A (OBJECTIVE TYPE QUESTIONS OMR SHEETS)

- Q.1. What is the full form of DOS (1)
a) Disk operating system b) Disk operate schedule
c) Distributed Operating System d) None of above
- Q.2. Windows7 is (1)
a) multiuser b) multitasking c) multiprogramming d) all of above
- Q.3. Cp command in unix is used to (1)
a) copy b) cut c) concatenate d) none of above
- Q.4. Which command in unix is used for making a directory (1)
a) mkdir b) makdr c) mkidir d) crdir
- Q.5. Which operation helps to apply password in any file (1)
a) encrypt b) saveas c) password d) prepare
- Q.6. In excel STDEV formula is used to calculate (1)
a) sum b) standard deviation
c) standard mean d) standard median
- Q.7. Smart art is used in (1)
a) MS WORD b) MS EXCEL c) MS PPT d) ALL
- Q.8. Which shortcut key is used for printing a file (1)
a) ctrl+c b) ctrl+v c) ctrl+p d) ctrl+pr
- Q.9. Screenshot can be taken by using key (1)
a) printscreen b) pgdn c) pgup d) None
- Q.10. What is an operating system (1)
a) user interface b) highlevel language
c) gaming app d) processor

