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(4th Semester)

COMMERCE

Paper : BC-410

(**Entrepreneurship**)

Full Marks : 50

Time : 2 hours

(PART : B—DESCRIPTIVE)

(*Marks : 35*)

*The figures in the margin indicate full marks
for the questions*

Answer Question No. **1** which is compulsory
and *any two* from the rest

1. Explain the role of an entrepreneur in economic growth of a country. What are the differences between entrepreneur and intrapreneur? 10+5=15
2. What do you mean by EDPs? Describe the importance of EDPs in economic development. 2+8=10

3. Define external environment. Discuss the factors affecting external environmental analysis. 3+7=10
4. Give the salient features of MSMED Act, 2006. 10
5. What are the problems faced by entrepreneurs in North-East India? Explain the subsidies and grants provided for micro-, small and medium enterprises in NER. 5+5=10

Subject Code : COM/IV/10

Booklet No. **A**

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Subject
Paper
Descriptive Type
Booklet No. B

INSTRUCTIONS TO CANDIDATES

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- 2. This paper should be ANSWERED FIRST and submitted within 45 minutes of the commencement of the Examination.
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COM/IV/10

2 0 1 7

(4th Semester)

COMMERCE

Paper : BC-410

(Entrepreneurship)

(PART : A—OBJECTIVE)

(Marks : 15)

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks : 5)

1. State whether the following statements are *True (T)* or *False (F)* by putting a Tick (✓) mark : 1×3=3

(a) The entrepreneurship concept originated in the 16th Century.

(T / F)

(b) Factory Act, 1948 applies on that manufacturing process where without the aid of power the number of workmen is 20 or more.

(T / F)

(2)

(c) Opportunity analysis does not reveal strengths and weaknesses of a business idea.

(T / F)

2. Choose the correct answer and place its code in the brackets provided : 1×2=2

(a) Entrepreneurial development programme provides

(i) self-employment

(ii) increase in the skills of entrepreneur

(iii) education and training

(iv) All of the above []

(b) Entrepreneurship Development Institute of India was set up in

(i) 1983

(ii) 1993

(iii) 1984

(iv) 1994 []

(3)

SECTION—B

(Marks : 10)

3. Write short notes on the following : 2×5=10
(a) Entrepreneurship

(4)

(b) NABARD

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(5)

(c) Internal environment of business

(6)

(d) State-level financial institutions

(7)

(e) Women entrepreneurship

2017

(4th Semester)

COMMERCE

Paper : BC-411

(Industrial and Company Law)

Full Marks : 75

Time : 3 hours

(PART : B—DESCRIPTIVE)

(Marks : 50)

*The figures in the margin indicate full marks
for the questions*

Answer **one** question from each Unit

UNIT—I

1. What is occupational disease? Describe in detail arising out of and in the course of employment. 3+7=10
2. Define layoff. Explain the general prohibition of strike and lockout. 3+7=10

G7/330a

(Turn Over)

UNIT—II

3. Discuss the fixation and revision of minimum wages under the Minimum Wages Act, 1948. 10
4. Describe the provisions of the Factories Act regarding the safety of workers. 10

UNIT—III

5. Define memorandum. Explain the form and contents of Memorandum of Association. 3+7=10
6. What is debenture? Explain the characteristics and classification of debenture. 3+7=10

UNIT—IV

7. Explain the rights and duties of director. 10
8. Explain the following : 5+5=10
 - (a) Annual general meeting
 - (b) Voting

G7/330a

(Continued)

(3)

UNIT—V

9. Explain the following : 5+5=10

(a) Oppression

(b) Mismanagement

10. Discuss the types and procedure of voluntary winding up. 10

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(4th Semester)

COMMERCE

Paper : BC-411

(Industrial and Company Law)

(PART : A—OBJECTIVE)

(Marks : 25)

The figures in the margin indicate full marks for the questions

SECTION—A

(Marks : 10)

1. State *True (T)* or *False (F)* by a Tick (✓) mark : 1×5=5

(a) The number of representatives of workmen in the works committee must be less than the number of representatives of employer.

(T / F)

(2)

(b) Minimum wages payable under the Act shall be paid in cash.

(T / F)

(c) Subscribed capital is that part of authorized capital which is actually offered to the public for sale.

(T / F)

(d) The minutes of each meeting shall contain a fair and correct summary of the proceedings.

(T / F)

(e) Compulsory winding up takes place when a company is directed to be round up by an order of a court.

(T / F)

2. Fill in the blanks :

1×5=5

(a), in ordinary language, means loss of capacity to work or move.

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(b) The maximum daily working hours for women in

a factory shall be
hours.

(c) The memo and articles are
which may be inspected by anybody at the office
of the registrar of companies.

(d) The directors are liable for untrue statements in

the

(e) Any act done by the majority beyond the object

clause is

(4)

SECTION—B

(Marks : 15)

3. Write short notes on the following in not more than
5 sentences each : 3×5=15
- (a) Lockout

(5)

(b) Working hour for children

(6)

(c) Statement in lieu of prospectus

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(7)

(d) Shares

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(8)

(e) Quorum

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(4th Semester)

COMMERCE

Paper : BC-412

(Quantitative Techniques)

Full Marks : 75

Time : 3 hours

(PART : B—DESCRIPTIVE)

(Marks : 50)

*The figures in the margin indicate full marks
for the questions*

Answer **one** question from each Unit

UNIT—I

1. What is descriptive statistics? Point out the importance of statistics in the field of business. 5+5=10

2. (a) The arithmetic mean of a group of 55 observations were calculated to be 27. It was later discovered that one observation was wrongly read as 33 instead of correct value 83. Find the correct mean corresponding to the correct observation. 2

- (b) Compute the value of median from the following marks : 2

10, 9, 19, 21, 25, 32, 11

- (c) Using step deviation method, calculate standard deviation from the following data : 6

Class	:	0-10	10-20	20-30	30-40	40-50	50-60	60-70
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Frequency	:	10	15	25	25	10	10	5
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UNIT—II

3. (a) Give the mathematical definition of probability. 3

- (b) What is the probability that a leap year, selected at random will contain 53 Sundays? 3

- (c) A class consists of 80 students, 25 of them are girls and 55 boys, 10 of them are rich and remaining poor, 20 of them

(3)

are fair complexioned. What is the probability of selecting a fair complexioned rich girls? 4

4. (a) What are regression equations of X on Y and Y on X? 2+2=4

(b) The age of husbands and wives is given for 8 pairs. Calculate the coefficient of correlation between the two variables using direct method : 6

Age of husbands	:	62	64	65	65	66	67	68	70
Age of wives	:	65	66	63	66	70	70	67	69

UNIT—III

5. (a) What are the various tests of adequacy of index numbers formulae? Describe each of them briefly. 4

(b) Calculate Fisher's ideal index number from the data given below and show that it satisfies time-reversal test : 6

Commodity	2015		2016	
	Price	Quantity	Price	Quantity
A	10	49	12	50
B	12	25	15	20
C	18	10	20	12
D	20	5	40	2

(4)

6. (a) What are the preliminary adjustments that should be made before analyzing time series? 5

(b) Calculate the trend values by the method of least squares from the data given below and estimate sales for the year 2015 : 5

Year	:	2006	2007	2008	2009	2010
Sales (in '000 units)	:	12	18	20	23	27

UNIT—IV

7. (a) Using Cramer's rule, solve the following equations : 4

$$\begin{matrix} x & y & 1 & z \\ y & z & 1 & x \\ z & x & 1 & y \end{matrix}$$

(b) A firm produces three products P₁, P₂ and P₃ requiring the mix-up of three materials M₁, M₂ and M₃. The per unit requirement of each product for each material (in units) is as follows :

		M ₁	M ₂	M ₃
A	P ₁	2	3	1
	P ₂	4	2	5
	P ₃	2	4	2

Using matrix notations, find—

- (i) the total requirements of each material, if the firm produces 100 units of each product;
- (ii) the per unit cost of production of each product, if the per unit costs of materials M_1 , M_2 and M_3 are ₹ 5, ₹ 10 and ₹ 5 respectively;
- (iii) the total cost of production, if the firm produces 200 units of each product. 2+2+2=6

8. (a) Verify that $(AB)^1 = B^1A^1$, where

$$A = \begin{vmatrix} 1 & 1 & 2 \\ 2 & 1 & 0 \end{vmatrix} \text{ and } B = \begin{vmatrix} 1 & 2 \\ 1 & 1 \\ 2 & 0 \end{vmatrix}$$

4

(b) The total cost C for a manufacturer producing two items X and Y is given as $C = p + qX + rY$. Data for three weeks is as follows :

Week	Cost	Number of items produced	
		X	Y
1	6950	40	10
2	6725	35	9
3	7100	40	12

Determine p , q , r using determinant method. 6

UNIT—V

9. (a) Given

$$y = f(x) = \frac{x^2 - x + 12}{x + 4}$$

- (i) Evaluate the limit of y as $x \rightarrow 4$.
- (ii) Is this function continuous at $x = 4$?
Why? 3+1=4

(b) The total cost function for producing x units of a commodity is $TC = 60 + 12x + 2x^2$. Find the level of output at which TC is minimum. 6

10. (a) Evaluate : 4

$$\int \frac{x}{a + bx} dx$$

(b) A manufacturer's marginal cost function is $MC = 0.003x^2 + 0.6x + 40$, where x is the number of units of a product. If x increases from 100 to 200 units, find the total increase in cost. 6

Subject Code : COM/IV/12

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(4th Semester)

COMMERCE

Paper : BC-412

(Quantitative Techniques)

(PART : A—OBJECTIVE)

(Marks : 25)

The figures in the margin indicate full marks for the questions

Answer **all** questions

SECTION—A

(Marks : 10)

1. Indicate whether the following statements are True (T) or False (F) by a Tick (✓) mark : 1×5=5

(a) The conclusions obtained statistically are universally true.

(T / F)

(b) Independent events are those in which the outcome of one does not affect and is not affected by the other.

(T / F)

(2)

(c) Index numbers are barometers of economic activity.

(T / F)

(d) A square matrix in which every non-diagonal element is 1 and every diagonal element is zero, is called an identity matrix.

(T / F)

(e) $\lim_{x \rightarrow a^-} f(x)$ is called the left-hand limit of $f(x)$ at $x = a$.

(T / F)

2. Choose the correct answer and place its code in the brackets provided : 1×5=5

(a) Which average is affected most by extreme observations?

(i) Mode

(ii) Median

(iii) Geometric mean

(iv) None of the above

[]

(3)

(b) The regression lines cut each other at the point of

(i) average of X and Y

(ii) average of X only

(iii) the median of X and Y

(iv) None of the above []

(c) The most important factors causing seasonal variations are

(i) growth in population

(ii) technological improvements

(iii) climate conditions

(iv) None of the above []

(4)

(d) If

$$|A| \begin{vmatrix} 2 & 3 & 4 \\ 4 & 5 & 6 \\ 6 & 7 & 8 \end{vmatrix}$$

then the minor of a_{12} , i.e., M_{12} is

(i) 4

(ii) -4

(iii) -68

(iv) None of the above []

(e) The integration of $e^x dx$ is

(i) $e^x + C$

(ii) $dx + C$

(iii) $d/dx + C$

(iv) None of the above []

(5)

SECTION—B

(Marks : 15)

3. Write notes on the following in not more than
6 sentences each : 3×5=15

(a) Mathematical averages

(6)

(b) Simple and compound events

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(7)

(c) Quantity index numbers

(8)

(d) Properties of matrix addition

(9)

(e) Limit of a function
