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SEAT No. :

**P2121**

[Total No. of Pages : 2

[5803]-101

**First Year B.B.A. (Computer Application)**  
**CA-101 : BUSINESS COMMUNICATION SKILLS**  
**(2019 CBCS Pattern) (Semester -I)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*

**Q1) A) Fill in the blanks (Attempt any five out of Six):** **[5]**

- a) The term “communis” derived from\_\_\_\_\_word.
  - i) Greek
  - ii) Latin
  - iii) Chinese
  - iv) English
- b) Communication means \_\_\_\_\_ information, feeling and thoughts, with others.
  - i) To receive
  - ii) Exchange of
  - iii) Conveying
  - iv) All of the above
- c) \_\_\_\_\_ should not be included in the physical appearance of the Business letter.
  - i) Margin
  - ii) Date
  - iii) Folding
  - iv) Typing
- d) The purpose of interview is to assess the\_\_\_\_\_.
  - i) Candidate
  - ii) External personality.
  - iii) Background
  - iv) Status
- e) Video conferencing makes it easier to access expert in\_\_\_\_\_.
  - i) Medical Environment
  - ii) Medical storage
  - iii) Medical stock
  - iv) Relevant
- f) Voicemail is also known as\_\_\_\_\_.
  - i) Voice male
  - ii) Voice bank
  - iii) Voice tank
  - iv) Voice communication

**P.T.O.**



- B) Match the following: [5]
- |                           |  |
|---------------------------|--|
| 1) External Communication | a) Direct Communication                        |
| 2) Presentation requires  | b) Official communication                      |
| 3) Memo                   | c) Inward or outward communication             |
| 4) Gesture                | d) The media through which message is conveyed |
| 5) Channel                | e) Right attitude                              |
- C) True or False (Attempt any four out of five) [4]
- Grapevine communication is associated with Horizontal communication.
  - Voice mail is a computer based system.
  - Orders and directives are the example of downward communication.
  - Warren Buffet invented the WhatsApp.
  - When business letter is written in brief it is said that it has followed the principle of consciousness.

**Q2) Short Answer (Attempt any three out of four) [3×8=24]**

- Explain in detail the Need for effective communication.
- Write is Non-Verbal communication. State importance & Merits Non-Verbal communication.
- Explain Need of Business correspondence in detail.
- Write short note on tele conferencing with merits and demerits.

**Q3) Long answer (Attempt any two out of four) [2×16=32]**

- Define communication. Explain barriers of communication and suggest the remedies to overcome the barriers.
- What is Oral communication? Differentiate between oral and written communication.
- Explain written communication? Explain types of written communication in detail with their merits.
- State and explain different media of communication in detail.



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SEAT No. :

**P2122**

[Total No. of Pages : 2

[5803]-102

**First Year B.B.A.**

**CA-102 : PRINCIPLES OF MANAGEMENT**

**(CBCS 2019 Pattern) (Semester -I)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Figure to the right indicate full marks.*

**Q1) a)** Fill in the blanks (any 5).

**[5 × 1 = 5]**

- i) \_\_\_\_\_ is concerned with study of movement of workers, Parts, materials and eliminates unnecessary movements.
- ii) \_\_\_\_\_ refers to centralised control in decentralised structure
- iii) \_\_\_\_\_ referes to issuing orders & instructions to subordinates
- iv) The achievement motivation theory was given by \_\_\_\_\_
- v) \_\_\_\_\_ means diffusion of Authority
- vi) \_\_\_\_\_ is a sequence of suddenly disturbing events which have negative impact on organisation.

**b)** Match the following.

**[5×1=5]**

**A**

**B**

- |                             |                               |
|-----------------------------|-------------------------------|
| i) Change                   | a) Hierachy of needs          |
| ii) Evolution of management | b) Art of getting things done |
| iii) Motivation             | c) results from stimuli       |
| iv) Planning                | d) Schools of thought         |
| v) Management               | e) countinuous in Nature      |

**P.T.O.**



- c) State True or False. [4×1=4]
- i) Problem solving teams are temporary in nature.
  - ii) The third function of management is directing.
  - iii) Scientific management is based on the principles of direction.
  - iv) Forecasting is a subset of planning.
  - v) Simulation refers to how a company with limited resources makes optimum use of resources.

**Q2) Answer any 3.** [3×8=24]

- a) Explain principles of direction.
- b) Elaborate on the role of managers in management.
- c) What are the various causes of Workstress?
- d) Explain the relation between planning and decision making.

**Q3) Answer any 2.** [2×16=32]

- a) Explain & define forecasting. Explain techniques of forecasting with diagram.
- b) Explain 14 principles of management by Henry Fayol.
- c) What is management? Explain various functions of management.



Total No. of Questions : 5]

SEAT No. :

**P2123**

[Total No. of Pages : 2

[5803]-103

**First Year B.B.A. (C.A.)  
CA-103 : C LANGUAGE  
(CBCS 2019 Pattern) (Semester -I)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Questions : Total Number of Questions are : 5*

**Q1)** Attempt any Eight of the following (Out of Ten)

**[8×2=16]**

- a) Define identifier.
- b) Explain continue statement.
- c) Define for loop.
- d) What is C character set?
- e) Define Associativity.
- f) Define if-else statement?
- g) Define printf()
- h) What do you mean by static variable?
- i) Define pointer in C.
- j) Give the syntax of malloc()

**Q2)** Attempt any four of the following (Out of Five)

**[4×4=16]**

- a) Differentiate between entry control and exit control loop.
- b) Define structure. Give suitable example.
- c) What is a 1-D Array? How to represent 1 D array in memory.
- d) Write an algorithm and draw flow chart to find minimum of two numbers.
- e) Write a program to find the sum of digits of a number using function.

**Q3)** Attempt any Four of the following (Out of Five).

**[4×4=16]**

- a) Define operator. List and explain any four categories of operators in C.
- b) What is string? Explain any four functions of string.
- c) Explain call by value and call by reference with example.
- d) Write a program to find the given number is armstrong or not.
- e) Write a C program to add two matrices.

**P.T.O.**



**Q4)** Attempt any Four of the following (Out of Five)

**[4×4=16]**

- a) What is function? Explain types of function.
- b) What is storage class? Explain types of storage classes.
- c) Explain switch statement with example.
- d) Write a program to print Fibonacci series up to n numbers.
- e) Trace the output

i) 

```
int main()
{
    char str 1[]="Hello";
    chr str2[]="Hello";
    if(str1= =str2)
    printf("string are equal");
    else
    printf("string are not equal");
    getch();
}
```

ii) 

```
int main()
{
    float a[]={ 12.4,2.3,5.6,7.8};
    printf("%d',sizeof(a)/sizeof(a[0]));
    getch();
}
```

**Q5)** Write a short note on any two of the following (Out of Three)

**[2×3=6]**

- a) strcat()
- b) *Data type*
- c) break statement



Total No. of Questions : 5]

SEAT No. :

**P2124**

[Total No. of Pages : 4

[5803]-104

**First Year B.B.A. (CA)**

**CA-104 : DATABASE MANAGEMENT SYSTEM**

**(CBCS 2019 Pattern) (Semester -I)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Figures to right indicate marks.*

**Q1)** Attempt any Eight of the following:

**[16]**

- a) Enlist four basic file operations.
- b) Define Data and Information.
- c) Define the term Cardinality.
- d) Explain the use of COUNT () with example.
- e) What is Insertion Anomaly?
- f) Write two categories of Data Models.
- g) Explain character data type of SQL.
- h) Define Candidate key.
- i) Write two advantages of Sequential file organization.
- j) Define Functional Dependency.

**Q2)** Attempt any Four of the following:

**[16]**

- a) Explain sequential file organization.
- b) Write a note on Data Dictionary
- c) Explain object oriented model.
- d) Explain aggregate function in SQL with example.
- e) List various DDL command. Explain any one with example.

**P.T.O.**



**Q3)** Attempt any Four of the following:

[16]

a) Consider the following Entities and Relationships & solve the queries:

**Department** (dept\_no, dept\_name, location)

**Employee** (emp\_no, emp\_name, address, salary, designation)

Relation between Department and Employee is **One to Many**

**Constraint:** Primary key, salary should be  $> 0$

- Find total salary of all computer department employees.
- Find the name of department whose salary is above 10000.

b) Consider the following Entities and Relationships & solve the queries:

**Book** (Book\_no, title, author, price, year\_published)

**Customer** (cid, cname, addr)

Relation between Book and Customer is **Many to Many**.

**Constraint:** Primary key, price should be  $> 0$ .

- Display author wise details of book.
- Display customer name that has purchased more than 3 books.

c) Consider the following Entities and Relationships & solve the queries:

**Musician** (mno, mname, addr, phno)

**Album** (title, copy\_right\_date, format)

Relation between Musicians and Album is **One to Many**.

**Constraint:** Primary key.

- Display all albums composed by 'A R Rehman'.
- Display musician details who have composed Audio album.

d) Consider the following Entities and Relationships & solve the queries:

**Sailor** (sid, sname, age)

**Boats** (bid, bname, color)

Relation between Sailer and Boats is **Many to Many**



**Constraint:** Primary key, age should be  $> 0$ .

- Display details of all boats sailed by sailor 'Ram'.
- Display Sailor names working on blue boat.

e) Consider the following Entities and Relationships & solve the queries:

**Account** (ano, branchname, balance)

**Customer** (cust\_no, cust name, street, city)

Relation between Account and Customer is **Many to Many**.

**Constraint:** Primary key, balance should be  $> 500$ .

- Display customer details with balance between 100000 and 200000.
- Display customers having more than two accounts in Chinchwad branch.

**Q4)** Attempt any Four of the following:

**[16]**

- Explain dense index and sparse index.
- Explain with example the Degree of Relationship Set
- Explain the following aggregate functions:
  - SUM()
  - MIN()
- Consider the following Entities and Relationships & solve the queries:

**Property** (pno, desc, area, rate)

**Owner** (owner\_name, addr, phno)

Relation between owner and Property is **One to Many**.

- Display property owned by Mr.Patil'.
- Display all properties with owner name that located in Chinchwad area.

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e) Consider the following Entities and Relationships & solve the queries:

**Branch** (bname, bcity, assets)

**Loan** (loan no, amount)

Relation between Branch and Loan is **One to Many**

- Display total loan amount given by ABC branch.
- Find the name of branch that have assets located in Mumbai.

**Q5)** Write short notes on any Two of the following:

**[6]**

- a) Advantages and Disadvantages of RDBMS.
- b) Normalization
- c) Generalization in ER Modelling.



Total No. of Questions : 5]

SEAT No. :

P3012

[Total No. of Pages : 4

[5803]-105

F.Y. B.B.A.(CA)

CA 105 : BUSINESS STATISTICS

(2019 Pattern) (Semester - I)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Notations and abbreviations have their usual meaning.
- 4) Simple calculator is allowed.

Q1) A) Fill in the blanks : [10]

- i) \_\_\_\_\_ makes clear presentation of data.
- ii) \_\_\_\_\_ is a value which is typical or representative of a set of data.
- iii) \_\_\_\_\_ is a statistical tool used to measure the relationship between two sets of variables.
- iv) \_\_\_\_\_ is the simplest absolute measure of dispersion which shows the difference between the highest and the lowest value in a series.
- v)  $\frac{\sigma}{\bar{X}} \times 100 = \underline{\hspace{2cm}}$ .

B) True or false : [6]

- i) The sum of all the observation divided by Number of observation is mean.
- ii) The value of correlation coefficient in perfect degree lies between +1 and -1.
- iii) Cumulative frequency polygon is also called absicca.

P.T.O.



**Q2) Attempt any 4 out of 6 :**

**[16]**

- a) Write meaning and definition of statistics. Explain the importance of statistics.
- b) Calculate combined mean for the following data :
- $$N_1 = 50 \quad N_2 = 40$$
- $$\bar{X}_1 = 63 \quad \bar{X}_2 = 54$$
- c) Find standard deviation : 8, 10, 15, 24, 28.
- d) Prepare Histogram from the following data :
- |    |    |    |    |    |    |
|----|----|----|----|----|----|
| X: | 5  | 10 | 15 | 20 | 25 |
| f: | 10 | 20 | 30 | 10 | 05 |
- e) The coefficient of correlation between two variable X, Y is 0.6. Their covariance is 18. The variance of X is 25. Find variance of Y series.
- f) From the following data calculate Quartile Deviation X = 4, 9, 14, 19, 24, 29, 34, 39, 44, 49 and 54.

**Q3) Attempt any 4 :**

**[16]**

- a) Explain the properties of Karl Pearson's coefficient of correlation.
- b) Calculate Mean, Median and Mode for :
- 12, 13, 15, 12, 17, 12, 13
- c) The following is the distribution of height of students in a class of secondary school.
- |                   |         |         |         |         |         |         |
|-------------------|---------|---------|---------|---------|---------|---------|
| Height in cm :    | 130-134 | 135-139 | 140-144 | 145-149 | 150-154 | 155-159 |
| No. of students : | 5       | 15      | 28      | 24      | 17      | 11      |
- i) State the type of classification.
- ii) Find the class mark of 3<sup>rd</sup> class.
- iii) How many students have height less than 145 cm?
- iv) How many students have more than 150 cm height?

- d) What is the meaning of classification? Define its various types.
- e) Construct the frequency distribution table for the data on weights (in kg) of 20 students of a class using intervals 30-35, 35-40, and so on  
40, 38, 33, 48, 60, 53, 31, 46, 34, 36, 49, 41, 55, 49, 65, 42, 44, 47, 48, 39.

- f) Find average wages of 10 workers :

Daily wage :	4	6	10	11	14	Total
(in ₹)						
No. of workers :	2	1	4	2	1	10

**Q4) Attempt any four :**

**[16]**

- a) Find median for average life of a particular brand of T.V. sets from the following data :

Life in years :	0-5	5-10	10-15	15-20	20-25	25-30	30-35	35-40
No. of sets :	2	16	26	39	43	21	8	4

- b) Calculate coefficient of variation of the following data :

Weekly Rent :	400	700	800	950	1000	1200	1450
(in ₹)							
No. of Persons							

Paying the Rent :	11	13	34	39	18	8	2
-------------------	----	----	----	----	----	---	---

- c) Find combined standard deviation :

Group I -  $\bar{X}_1 = 2100$   $n_1 = 100$   $\sigma_1 = 10$

Group II -  $\bar{X}_2 = 1500$   $n_2 = 200$   $\sigma_2 = 12$

- d) Explain the methods of calculation of Arithmetic mean.

- e) The following information is given to find the two regression lines

i) Y on X

ii) X on Y

$\bar{X} = 10, \bar{Y} = 90, \sigma_x = 3, \sigma_y = 12$  and  $\gamma = 0.8$ .

- f) Calculate Karl Pearson's coefficient of correlation for the following data :

X :	4	7	11	14	19	15
Y :	18	16	17	19	19	21

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3

P.T.O.



Q5) Attempt any one :

[6]

a) Draw the less than and greater than Ogives for the following data :

Class Interval	Frequency
20-30	04
30-40	06
40-50	13
50-60	25
60-70	32
70-80	19
80-90	08
90-100	03

b) From the data given below, find the regression equations :

Marks : 25 28 35 32 31 36 29 38 34 32

(Economics)

Marks : 43 46 49 41 36 32 31 30 33 39

(Statistics)

