BCA/QuoclessA

Total Pages: 02

GSE/D-22

# COMPUTER AND PROGRAMMING Paper: BCA-111 FUNDAMENTALS

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question carry equal marks. from each Unit. Q. No. 1 is compulsory. All questions

# Compulsory Quesions

- (a) Write a short note on memory units.
- 9 Differentiate between application software and system software.
- 0 Explain the concept of structured programming. 4
- Write a short note on sorting with suitable example.4

Computer with human being by taking any suitable example. along with a block diagram. Compare the functioning of Define Computer. Explain various components of computer

(6-00/3) L-1161

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languages.  (b) Explain compiler, assembler and interpreter.  8	searching techniques along with suitable examples. 10  (a) Elaborate on the classification of computer	S	(b) Explain various types of programming methodologies by taking suitable example. 8	(a) Write short note on errors, debugging and	Explain the concept of flowcharting, algorithm and decision table with suitable examples.  16	examples.  Unit III	Give the classification of operating systems. Explain with	of operating system.  (b) Hardware and software are the two sides of same coin. Elaborate.	Unit II  (a) Define operating system. Explain various functions	(b) Explain secondary storage devices. 8	(a) What are the applications of computers in surrous 8

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3,900

. 00	Describe various Entertainment Tools.	3.
	functions of Operating System.  (b) Explain the following:  (i) Recycle Bin  (ii) Disk Defragmentation	
Describe various	Unit I  (a) What is an Operating System? Describe various	,
Interface ?	<ul><li>(a) What do you understand by User Interface?</li><li>(b) Explain the purpose of ClipArt.</li><li>(c) What is Spreadsheet?</li><li>(d) What do you mean by Consolidating Data?</li></ul>	111
2×4=8	carry equal marks.  Compulsory questions:	
ng one question by. All questions	Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions	Note
[Maximum Marks : 80	Time: Three Hours] [Max	Tim
WARE	WINDOWS AND PC SOFTWARE	
Total Pages: 02	Roll No	Roll

(6-00/5) L-1162

# Unit II

, oc		.7	6.		9 50	+
8. What is a Macro? Explain the steps to record and run a Macro.	Columns in a worksheet. 4  Unit IV	(a) Describe different views of Workbook. 4 (b) Explain, various steps to Freeze specific rows or	Explain the various features of MS-Exect. 8	Unit III	How can you install Printer? Explain various steps to share a Printer on Network or LAN.	Explain various steps to Scan a disk using Scandisk Tool.

L-1162

00

(a) Solve the differential equation :

$$x^{2} \frac{d^{2}y}{dx^{2}} + x \frac{dy}{dx} - y = x^{2} e^{x}.$$

(b) Determine the curve in which the length of the subnormal is proportional to the square of the ordinate.

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# MATHEMATICAL FOUNDATIONS-I BCA-113

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

# (Compulsory Question)

- (a) Draw Venn diagram for A ∪ B.
- b) Define Lattices.
- (c) Evaluate:

$$\lim_{x \to 5} \frac{x^2 - 9x + 20}{x^2 - 6x + 5}$$

(d) Find order and degree of the differential equation

$$\frac{d^3y}{dx^3} - \left(\frac{dy}{dx}\right)^{1/3} = xy.$$

(e) Solve the differential equation :

$$\frac{d^3y}{dx^3} - 3\frac{d^2y}{dx^2} + 3\frac{dy}{dx} - y = 0.$$

(3-26/8) L-1163

### Unit I

2. (a) Prove that:

$$A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$$

- (b) Show that if R₁ and R₂ are equivalence relation on A then R₁ ∩ R₂ is an equivalence relation.
- 3. (a) A box contains 2 white balls, 3 black balls and 4 red balls. In how many ways can 3 balls be drown from the box, if at least one black ball is to be included in the draw?
- (b) If  $f(x,y,z)=(x\cup y)\wedge(x\cup y')\wedge(x'\cup z)$  be a given Boolean function, determine its DN form.

# Unit II

- (a) Prove that limit of a function at a point, if exists, is unique.
- (b) Find the value of a if the function f given by

$$f(x) = \begin{cases} 2x-1, & 2 < x \\ a, & x=2 \\ x+1, & x > 2 \end{cases}$$
 is continuous at  $x = 2$ .

- 5. (a) Find  $\frac{dy}{dx}$  if  $y = \frac{\sqrt{x(x+4)^{3/2}}}{(4x-3)^{4/3}}$ .
- (b) Find  $\frac{dy}{dx}$  if  $y = (\sqrt{x})^x + (x)^{\sqrt{x}}$ .
- .

1-1163

(c) If =  $x^x$ , show that :

$$\frac{d^2y}{dx^2} - \frac{1}{y} \left(\frac{dy}{dx}\right)^2 - \frac{y}{x} = 0.$$

# Unit III

- (a) Form the differential equation of the equation (x a)<sup>2</sup> + (y b)<sup>2</sup> = r<sup>2</sup> by eliminating the arbitrary constants a and b.
- (b) Solve the differential equation:

$$y\sqrt{1-x^2}dy+x\sqrt{1-y^2}dx=0$$

7. (a) Solve the differential equation:

$$(x^2-y^2)dx-xydy=0.$$

(b) Solve the differential equation:

$$(x^2+y^2+2x)dx+2ydy=0.$$

# Unit IV

8. (a) Solve the differential equation:

$$\frac{d^3y}{dx^3} + y = 3 + e^{-x} + 5e^{2x}.$$

(b) Solve the differential equation:

$$\frac{d^2y}{dx^2} - 4\frac{dy}{dx} + 4y = x^2 + e^x + \cos 2x.$$

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11164

# GSE/D-22 LOGICAL ORGANIZATION OF COMPUTER-I

BCA-114

	Note:	Time:
Attempt fo	Attempt F	Time: Three Hours
our more	ive questio	
questions,	ns in all. (	Ser grad
selecting	Q. No. 1 is	Maximu
Attempt four more questions, selecting one question	Note: Attempt Five questions in all. Q. No. 1 is compulsory.	Maximum Marks: 80

. Answer the following questions in brief:

from each Unit. All questions carry equal marks.

- a) What is Radix? What are digits of hexadecimal number system?
- (b) Represent 'A' in ASCII and EBCDIC codes. 2
- (c) What is principle of duality? Explain. 2
- (d) State DcMorgan's laws.
- (c) What is XOR gate ? Draw truth table and symbol.
- f) What is AND gate? Draw truth table and symbol.
- (g) What is Multiplexer? Draw the diagram for 4 ×1 multiplexer and explain its working.

(5-20/6) L-1164 P.T.O.

### Unit I

- (a) Convert (37.23)<sub>10</sub> into binary and hexadecimal number systems.
- (b) Add (9)<sub>10</sub> and (-14)<sub>10</sub> in two's complement form.
- (a) What are BCD codes? Write self-complementing and cyclic BCD codes.

w

(b) What are error detecting and correcting code?

Explain with an example.

8

## Unit II

- 4. (a) State the postulates of Boolean algebra.
- (b) Prove the following Boolean theorems using Boolean postulates:
- (i) X + XY = X
- (ii) X + 1 = 1.
- 5. (a) What are canonical representation of Boolean functions? Explain POS and SOP form of representation with examples.
- (b) Simplify the following Boolean function using Kmap:
- $F(a, b, c, d) = \Sigma (0, 1, 2, 4, 5, 6, 8, 9, 12, 13, 14).$

# Unit III

(a) What are NAND and NOR gates? Why are these called as universal gates? Explain.

- (b) Implement F = A.B + C.D + E using NAND logic only.
- 7. (a) What is combinational logic ? What are characteristics of combinational circuits ? Also discuss design procedure of combinational circuits.
- (b) What is analysis procedure? Explain with an example.

## Unit IV

- 8. (a) What is full adder? Design full adder circuit.
- (b) What is comparator circuit? Design 3-bit comparator circuit.
- 9. (a) What is demultiplexer? Design 1 × 4 demultiplexer circuit.
- (b) Design a circuit to convert 8421 BCD code into excess-3 BCD code.

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# COMMUNICATIVE ENGLISH BCA-115

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. All questions carry equal marks.

## Unit I

 What according to Narayan are the blackspots of our education system.

0

How did Gandhiji impart the training of spirit?

2. (a) How did Holtz suffer in life ?

0

What did MacIntosh advise Rory to do in the court?

(b) How did Ranji lose his "magic" bat ?

(6-00/6) L-1165

How does Anand revive the saga of Old Bapu's life?

(c) What decision was taken against Foreman by the Vicar?

UF

What response did Petrov anticipate from Ivanych?

(d) What is the writer's opinion about the examination system?

0

Where does produce of animal's toil go?

(e) Who was Jowett? What does Lynd tell us about him?

9

What type of man a teacher be ?

### nit II

3. Read the passage and answer the questions that follow: At a certain university in America I met an advanced soul. He taught political science. One month before the annual examination, he cyclostyled (or Zeroxed') the questions and distributed them among his students, who thereafter apent nearly twelve hours a day in the library in the 'assigned reading room'.

# Questions :

- (i) Name the chapter and the writer.
- (ii) Why is the teacher called as "an advanced soul ?"
- (iii) What did the teacher do one month before the examination?
- (iv) How did the students prepare themselves for the examination thereafter ?
- (v) How much time did they spend in the library ?
- 4. (a) Write a fax to the Office of Principal of ABC College informing that you will be late in joining your duty as an Assistant Professor due to some personal reasons.
- (b) Write an e-mail to your father telling him about your excellent performance in the exams.
- (c) Compose a text message informing you mother that you will be late in coming to home.

## Unit III

# 5. Do as directed:

(i) He lives......Kurukshetra. (Preposition)
(ii) He abstains......alcohol. (Preposition)
(iii) My brother is......M.A. (article)
(iv) I have......dog in my house. (article)
(v) He prayed......God for his success. (article)

- <u>(3</u> He ......(drink) tea when i knocked at the door.
- (II) He.....(pray) to God daily.
- (viii) He often....(come) late.
- (EX) He....(live) here for last four years.
- 8 He caught the ball

(Change the voice)

(X) Tea is tasty.

(tag question)

(xii) He said to me, "Do you know my name?"

(Reported speech)

(xiii) He is sleeping.

(lag question

(xiv) Honey is sweet. (Change the voice)

(xv) My mother said, "May you live long!"

(xvi) She is the ..... (intelligent) girl of the school (Reported speech)

(xviii)He said to me,"I am your friend."(Reported speech) (xvii) Mount Everest is the highest peak of the world. (Rewrite using positive degree)

- 6. Write a paragraph in about 150 words:
- Population Explosion
- Importance of Computers

# Unit IV '

.7 printers they have delivered. Write a letter to ABC technologies to change the defected

> his permission to organize a techfest in the institute. Write an application to the Head of your Institute seeking

reservation clerk You are visiting a railway station to reserve your ticket Write a conversation that took place between you and the

### Unit V

- 9. What do you understand by RTI Act ? How does the act help in making the system transparent?
- 10. Write an application to seek information from the UGC available to physically challenged students. asking for the information about the benefits that are

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Total Pages: 03

GSE/D-22

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# PROGRAMMING IN C BCA-116

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

# (Compulsory Question)

- (a) What is the role of comments? How comments can be written in C?
- (b) Differentiate between getch(), getche() and getchar().
- (c) Differentiate between break and continue.
- d) What is recursion?
- (e) Why goto statement should be avoided in a program ?
- f) How arrays can be initialized?
- (g) What is meant by typecasting?
- How can you declare a string in C? 8×2=16

## Unit I

- 2 (a) Explain various data types in C.
- 9 example. Explain structure of a C program using suitable
- w (a) What is the difference between constants and variables? How can we declare constants in C? Explain using suitable examples.
- 9 Explain various I/O functions in C using suitable examples.

## Unit II

- and associativity. Describe various operators in C along with their hierarchy
- in (a) Write a program in C to find greatest among three numbers.
- 9 Discuss switch statement with the help of suitable switch statement. examples. Also discuss all the possible cases in

# Unit III

6. (a) Write a program in C to find the sum of the digits of the input number.

- 9 What do you understand by function? Explain the various benefits of using functions.
- 7 Describe various types of loops in C with the help of suitable examples. 16

## Unit IV

00 Explain various storage classes in C in detail.

16

arrays in detail. Write a program in C to biggest of nWhat do you mean by array? Explain various types of

9.

numbers

2

L-1166

Roll No. ..... Total Pages: 03

GSM/D-22

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# OBJECT ORIENTED PROGRAMMING USING C++ BCA-231

Time: Three Hours] [Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

# Compulsory question :

- Distinguish between Static Binding and Dynamic Binding.
- (ii) Differentiate with call by value and call by reference.
- (iii) Explain the rules of operator overloading.
- (iv) What do you mean by stream? What is the purpose of buffer?
- (v) Differentiate between static polymorphism and polymorphism. Explain its types.
- (vi) Explain strepy () with example.
- (vii) Define local class ().

6.			4	55		4				3.				2.			
What do you mean by Friend Function? Explain it with example.	Unit III	example. 8	(b) What do you mean by destructor? Explain it with	(a) Explain various stream classes with examples. 8	Give an example to illustrate copy constructor. 16	What is a copy constructor? Explain its significance.	mengd ben guithriff also Unit H bed debagmande (i)	example. 16	resolution operator with its significance by giving suitable	Differentiate between	programming? A	object oriented programming and procedural oriented	features and benefits. Also explain the difference between	What is Object Oriented Programming? Explain its	OVERGO CONT. I SINU MAGGIOLOGICA	How are they used ? 8×2=16	forms of get () fund
	3.									9.				00			7.
					,				operator ava	What is Op	sum o	(b) Write	examp	(a) Explai		using examp	What is Po

# Unit IV

- 8. (a) Explain the concept of Inline Function by using examples. What are its advantages?

  (b) Write a program to overload the "+"operator to find sum of two objects.
- What is Operator? Describe several different types of operator available in C++ with its precedence.

L-1167

(2-17/1) L-1168 12 w Note: Attempt Five questions in all, selecting one question Time: Three Hours] (a) (a) 9 (a) 0 9 9 carry equal marks. from each Unit. Q. No. 1 is compulsory. All questions suitable example. Explain, what do you mean by complexity of data structure in detail What is data structure? Explain various types of What are the various applications of data structure? Explain Stack and Queue and its applications. Define Big O notation. algorithm? How is it calculated? Explain with Write various string operations. Difference between Tree and Graph. Define Linked List and its applications. DATA STRUCTURES Compulsory Question GSM/D-22 BCA-232 [Maximum Marks: 80 Total Pages: 02 P.T.O.

### I TIN

- 4. Differentiate between row major and column major array index notation. How is index calculated in both? 16
- What do you mean by linked list? Write a function to insert and delete a node in linked list.

## Onit III

- Define stack. How is it different from queue? Write an algorithm to implement stack using linked list.
- Define circular queue. Write algorithm to insert an element in a circular queue.

# Unit IV

- List the types of binary search trees. Explain insertion and deletion operation on a binary search tree.
- Define Graph. Explain sequential and linked representation of graphs by giving suitable example.

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Total Pages: 03

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# COMPUTER ARCHITECTURE BCA-233

Time: Three Hours

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Section. Q. No. 1 is compulsory. All questions carry equal marks.

- Write notes on the following:
- ) Interrupt controlled data transfer
- (b) Register reference instructions
- c) Register transfer language
- I) RISC.

# Section A

- (a) What do you mean by Instruction Code? Explain its various components.
- (b) Explain the various Input/Output Reference Instructions.
- (a) Explain various approaches of Control Unit Design and Implementation.

(6-00/13) L-1169

(b) What are the various Addressing modes of basic computer? Explain.

# Section B

- 4. (a) What do you mean by Microoperation? Explain the hardware implementation of Logic Microoperations.
- (b) Explain the various CPU Registers.
- 5. (a) Explain the various Components of Microinstruction.
- (b) What do you mean by Address Sequencing? Explain.

# Section C

- 6. What do you mean by Instruction Format? What are the various types of Instruction formats? Explain with suitable examples.
- (a) What do you mean by Stack? Explain PUSH and POP operations.

ACTUAL OF YOUR SAME OF THE PARTY.

(b) What are the various features, advantages and disadvantages of CISC architecture?

# Section D

- 8. (a) What is Locality of Reference? Explain its types.
- (b) What do you mean by Associative Memory ? Explain its advantages and disadvantages.
- (a) Distinguish between Memory Mapped I/O and I/O Mapped I/O.
- (b) Explain the various methods of Strobe Control Asynchronous data transfer.

3

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Total Pages: 02

# SOFTWARE ENGINEERING GSM/D-22 BCA-234

Time: Three Hours] [Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

- Explain the following terms in brief:
- What is the need of Software?
- What are the various information gathering tools ?
- <u></u> Differentiate between product and process.
- **a** Define Software prototyping.

@

- What are basic issues of SRS ?
- tree ? What are the different types of nodes in decision
- Define Software Metrices.

- (b) What is the aim of Software Engineering? What are components of software? Discuss how a software differs from a program.

(3-29/3) L-1170

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tools to implement SQA.	What is Software Quality Assurance? Explain various	suitable example.	Explain various Software testing strategies by giving	Unit IV	Decision Table.	Structured English	Data Dictionary	Write short notes on the following:	Explain decision tree with suitable example. 8	State the model of a data dictionary and its contents. What are its advantages?	Unit III	development process.	Explain the need of a SRS document in Software	(b) What is Requirement Analysis?	detail.	Explain various information gathering tools in	Unit II	Software development. 16	Compare me material moses are -F-

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FUNDAMENTALS OF DATABASE SYSTEM

Paper: BCA-235

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

# Compulsory Question

(i) Define Record and File,

- Describe duties of Database Designers.
- (iii) What are three levels of DBMS ?
- (iv) Define Integrity rules.
- (v) Define tuple, attribute and domain
- (vi) Distinguish between Primary key and Secondary Key.
- (vii) Define Relational Algebra.

(viii) Explain various DBMS Languages.

8×2=16

## Unit I

(a) Define data and information. Differentiate between traditional file based system and database approach.

(6-00/15) L-1171

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	model. 8	
	to draw ER diagram based on the concept of ER	
	(b) What is an ER model? Discuss the notations used	0
	types.	
	(a) Explain Entity, Entity set, Attributes, Relationship	7. (
	purpose. 16	p
	Explain various types of Data models along with their	6. E
	Duit III . inches the Commit III . inches saftest (c)	
	(b) Explain client server architecture of DBMS. 8	0
	Physical data independence.	
	(a) What is Data Independence? Explain Logical and	5. (8
	(b) Describe Schemas and Instances. 8	
V:	(a) Explain three level Architecture of Database System.	4. (8
	The state of the s	
(b) What a	Administrator. 8	
9. (a) Explair	(b) Explain various responsibilities of Database	0
8	(a) What is DBMS? Explain its various components.	3. (8
8. Explain var		8
	(h) Explain various advantages and disadvantages of	4

example.	Explain
	various
	relational
	algebra
	operations
16	with

n various Integrity Constraints over Relations.

are various properties of Relations.

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# COMPUTER ORIENTED NUMERICAL METHODS BCA-236

Time : Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

# (Compulsory Question)

- 1. Attempt the following questions in short: 8
- (a) Explain Bairstow's method.
- (b) Define interpolation and approximation.
- '(c) Discuss pitfalls in differentiation.
- (d) Discuss order of convergence of Newton-Raphson method.
- (e) Write the Taylor series formula.
- (f) Explain orthogonal properties of Chebyshev polynomial.
- (g) Explain the types of errors that occur in numerical computations.
- (h) Discuss Predictor Corrector method.

(5-13/16)L-1172

- (a) computer? How are floating point numbers represented in
- 3 floating point numbers Discuss Arithmetic operations with normalised
- Explain the following Iterative methods ::
- Newton-Raphson method
- Bisection method

9

- (a) for three equations. Explain algorithms of Gauss-Elimination methods
- 0 Solve the following equations by Gauss elimination method

$$4x_1 + x_2 + 3x_3 = 11$$

$$3x_1 + 4x_2 + 2x_3 = 11$$

$$2x_1 + 3x_2 + x_3 = 7.$$

5. Find y for 
$$x = 0.1$$
 by using Euler's method : . . 16

$$\frac{dy}{dx} = \frac{y-x}{y+x}$$
,  $y = 1$  at  $x = 0$  with initial condition.

Use Newton's formula for interpolation to find the net premium at age 25 from the table given ahead: 16

7 relation  $T_{n+1}(x) = 2xT_n(x) - T_{n-1}(x)$ . Also find the first six Chebyshev ploynomials. Explain Chebyshev polynomials. Prove the recursion

# Unit IV

Evaluate  $\int_0^6 \frac{1}{1+x^2} dx$  by using:

(i) Simpson's 
$$\frac{1}{3}$$
 rule

(ii) Simpson's 
$$\frac{3}{8}$$
 rule.

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3

L-1172

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GSQ/D-22

# WEB DESIGNING FUNDAMENTALS BCA-351

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. All questions carry equal marks.

- Explain the following:
- Web server and search engines
- Domain name and hypertext
- Image tag and link tag
- Forms in html

## Unit I

- What is WWW? Explain the histroy of WWW.
- tools. What are the web casting techniques? Explain the search

## Unit II

a website. What is a homepage? Explain planning and designing of

(6-03/1) L-1173

5. Explain web publishing in detail.

# Unit III

- 6. Explain formatting of text in HTML. With example.
- Explain page layout feature in HTML.

## Unit IV

- 8. What is a Table ? How do we insert rows and columns in a table ?
- 9. What are Frames? Explain their creation and layouts in html.

# GSQ/D-22

# OPERATING SYSTEM-I BCA-352

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question carry equal marks. from each Unit. Q. No. 1 is compulsory. All questions

# (Compulsory Question)

With reference to the operating system, answer the following: 2×8=16

(i) Multiprocessing

(ii) Distributed

(iii) FCFS

(iv) Process

(v) Semaphore

(vi) Swapping

(vii) Deadlock

(viii) LRU

- Define Operating System. Explain its characteristics and components
- (6-03/2) L-1174 Explain the terms Batch, Timesharing, Parallel and Distributed with reference to Operating System. P.T.O.

### Unit II

	4
Block.	Define
	process
	and
	thread.
	Explain
	Process
16	Control

 Explain FCFS, SJF, Priority, Multilevel Queue scheduling algorithms.

# Unit III op og a spenier a start a

- Explain Prevention, Avoidance, Detection and Recovery with reference to dealock.
- 7. Explain Partition, Paging, Fragmentation and Segmentation with reference to memory management.

  16

# Unit IV

- Explain FIFO, Optimal and LRU page replacement algorithms.
- Explain various file allocations methods.

16

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GSQ/D-22

# ARTIFICIAL INTELLIGENCE

Paper: BCA-353

Time: Three Hours] [Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question carry equal marks. from each Unit, Q. No. 1 is compulsory. All questions

# (Compulsory Question)

- Define artificial intelligence.
- State any two applications of AI.
- (III) What is an expert system ?
- (iv) State any two limitations of expert systems.
- What is meant by state space search?
- (F) What is Heuristic Search?
- (vii) What does NLP stand for ?
- (viii) What does Local Maximum means? 8×2=16

### Unit I

State and explain various applications of AI.

(6-03/3) L-1175

8. What it		7. What	(a) (b)	6. Explai		5. Discu	4. What along		•	3. (a)	(9
What is Robotics? Explain the concept of a robot along with its major components.	Unit IV	What is search process in AI? Explain with different types of search techniques.	Breadth First Search  Best First.	Explain the following:	Unit III	Discuss Expert System Life-cycle process in detail. 16	What are the components of Expert Systems? Explain along with various charactertics of an Expert System.16	Unit II	Define problem representation in Artificial Intelligence. What are the different methods of problem representation in Artificial Intelligence?	Comment on "Can a Mechine Think". 6	What is a Turing test? How is it performed?  Explain.  8
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										Language P	What is N need ? Wh:

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Total Pages: 03

GSQ/D-22

117

# COMPUTER NETWORKS

Paper: BCA-354

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

# (Compulsory Question)

- (i) How many types of networking models are there ? List them.
- (ii) What is unit of measuring signal rate and data rate in data communication?
- (iii) Token management protocols are used for.....topology.
- (iv) Define Encryption and Protocol.
- v) Full form of CRC.
- vi) Explain the concept of Half Duplex Communication.
- (vii) What are the factors which are considered while using topology?

· (viii) Explain MAC Address.

2×8=16

(6-03/5) L-1176

6. Explain eliding window protocols in 3 and			tex (b) Di	5. (a) W	di	(b) E	4. (a) E		aı	ţ,	(b) V	6		0	. (	3. (a) \	2. Explai	
	Unit III	switching.	techniques in detail.  8 Differentiate between packet switching and circuit	What is Modulation? Explain various modulation	diagram in detail.	Explain multiplexing techniques using neat and clean	Explain guided transmisssion media in detail. 8	Unit II	and disadvantages.	types of Topologies with their diagrams, advantages	What is a Topology ? Explain in detail different	(iv) Router	(iii) Switch	(ii) Bridges	(i) NIC and PC cards	Write short notes on the following:	Explain OSI model in detail.	
	*					n			00	is.	nt					00	16	
						Ехран	9. What		(b)					8. (a)			techn	

## Unit I

- (a) Explain the following techniques of congestion
   control:
- ) Traffic Shaping
- ) Load Shedding
- iii) Choke Packet.
- (b) Explain shortest path routing in detail using suitable example.12
- What is Congestion? How does congestion occur? Explain in detail the congestion control policies. 16

Total Pages: 02

# GSQ/D-22

PROGRAMMING USING VISUAL BASIC BCA-355

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

# (Compulsory Question)

(a) Explain the following: Event Handler

4×4=16

6 Named and Intrinsic Constants

0 Nested Control Structure

Actual and Formal Parameters.

- 3 Explain the following: Integrated Development Environment. What is IDE? Explain the components of Visual Basic 4×4=16
- (a) Difference between Visual and Non-visual Programming
- (b) Difference between Object Based and Eventdriven language
- Important features of VB.

(3-26/5) L-1177

a variable? Explain scope and lifetime of variables. 16 What is forcing variable declaration? How can we declare

(a) Input Box

Explain the following:

Message Box

9

Print Statement.

# Unit III

What are the decision statements in VB? Explain selectcase statement with the help of example.

How will you declare a two-dimensional array in VB ? Explain with suitable example.

Differentiate between do loop and while wend loop.

# Unit IV

8. (2) subroutine? What is function and how does it differ from

3 How can we pass an array to function in VB ? 8

9. Write a program in VB to calculate factorial of a number.

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Total Pages: 02

GSQ/D-22

1178

MULTIMEDIA TOOLS

Paper: BCA-356

Time: Three Hours]

[Maximum Marks : 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

# (Compulsory Question)

- . (a) What is MPEG standard?
- (b) What is NTSC?
- (c) What do you mean by Raster Image?
- (d) What is DPCM?
- (e) What is HDTV standard?
- (f) What do you understand by video compression?
- (g) What is compression ratio?
- (h) What is digital audio?

8×2=16

### Unit

What is Multimedia? Discuss various multimedia software tools.

(6-03/7) L-1178

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(b) MPEG-1 and MPEG2	(a) MPEG-1 and H.261	Differentiate between the following:	What do you understand by data compression?  Differentiate between run-length coding and variable length coding.	Unit IV	What do you mean by coding of audio? Explain pulse code modulation in detail.	What is a digital audio? Differentiate between analog and digital audio.	Unit III	What do you mean by a data type? Explain various graphics/image data types.	(a) Chroma subsampling (b) CCIR standards	Explain the following digital video standards: 16	B. DOL Tunit II	(b) History of VRML	(a) Multimedia authoring tools	Write short notes on the following:	

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Total Pages: 02

### BSD/D-22

### COMPUTER FUNDAMENTALS BVSD-11

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question carry equal marks. from each Unit. Q. No. 1 is compulsory. All questions

- Write short notes on the following:
- Addressing Capability
- 0 9 Video Disk Bar-Code Reader
- Sign Magnitude Representation.

- What are the characteristics of a computer system?
- Explain the components of a Digital Computer.
- calculated? Explain. What is the processing speed of a computer ? How is it

### Unit II

Explain the following: Digitizing Tablet, OCR, OMR.

P.T.O.

(2-10/7) L-12086

- Differentiate the following :
- a) Inkjet and Laser Printers
- (b) Printer and Speaker.

### Unit III

- 6. What are primary and secondary data storage devices ? Explain the concept of volatile memory w.r.t. memory in computers.
- Explain the following :
   Floppy Disks, DVD, Physical structure of storage devices.

### Unit IV

- Explain the sign magnitude representation of binary numbers. Differentiate between 1's complement and 2's complement representations.
- 9. Write short notes on the following:
- (a)  $(16578)_{10} + (1000001)_2 = (?)_2$
- (b)  $(EEEEAA00)_{16} (23453)_8 = (?)_{10}$
- (c)  $(67)_{10} (109)_{10}$  using 1's complement and 2's complement representations.
- (d) 1232 + 3654 using BCD coding method.

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BSD/D-22

Total Pages: 03

### PC SOFTWARE BVSD-12

Time: Three Hours] [Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

- (a) Write the steps to search file or folder in Windows.
- (b) How to place a picture on slide in PowerPoint Presentation?
- (c) Write the steps to align text in MS-Word.
- (d) Write the steps to change the wall paper of the syetem.
- (e) What is range in MS-Excel?

#### Unit I

- (a) Discuss the functions of control panel.
- (b) What is the window explorer? What are its features?
- 3. Explain the following file commands:

4×4=16

-

(a) Moving

(5-15/I) L-12087

P.T.O.

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(a)	<b>a</b>	© B	Expl	Expl			(ъ)		(a)		Э		(a)		(3	9 3	© ©	
Explain the components of a slide in PowerPoint Presentation.	Hiding rows and columns.  Unit IV	Freezing Worksheet Panes Steps to protect a work sheet	Explain the following in MS-Excel: 4×4=16	Explain the components of chart. How to change chart layout and chart style.	Unit III	suitable example. 8	Describe the concept of Mail Merge by giving	MS-Word? Explain with example. 8	What are Auto Text and Auto Correct Utility in	paragraph and page formatting in detail.	What do you mean by Formatting? Explain character	window. 8	Explain the components of the Word document	Unit II		Delete	Copying	
															9.			
													Э		(a)		(ф)	
4												Presentation ?	How to anima	presentation?	What is the pr	themes effects	Explain the st	

(a) What is the procedure to insert sound and video in presentation?

How to animate text and objects in PowerPoint
Presentation?

L-12087

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3

Total Pages: 03

# BSD/D-22

OPERATING SYSTEMS-I BVSD-13

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory.

# (Compulsory Question)

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provided by operating system? Also discuss historical	What is an Operating System ? What are the services		(d) What is the need of disk scheduling ?	Addresses.	Differentiate between Logical and Physical	Write a short note on PCB.	What is a system program ?
90	gn	-	eed		be	not	tem
system	System	Unit I	of dish		tween	e on Po	progra
.0	.>		SS		L	CB.	B
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6

What are real-time systems? Discuss.

(a) What is the need of a system call? With the help

of an example, explain how is it executed.

evolution of operating system.

#### Unit II

- (a) Differentiate between short-term, medium-term and long-term scheduling.
- (b) What is Interrupt Processing? Explain.

5. What are the criteria for comparing CPU-scheduling algorithms? Consider the following set of processes, with the help length of the CPU-burst time given in milliseconds:

P5	P4	P3	P2	PI	Process
5	1	2	1	10	Burst Time
2	4	ယ	1	ယ	Priority

The processes are assumed to have arrived in the order P1, P2, P3, P4, P5, all at time 0.

 (a) Draw four Gantt charts illustrating the execution of these processes using FCFS, SJF, a non-preemptive priority (a smaller priority number implies a higher priority) and RR (quantum = 1) scheduling.

- (b) Find the turnaround time of each process for each of the scheduling algorithm in part (i).
- (c) Find the waiting time of each process for each of the scheduling algorithm in part (i).
- (d) Which of the algorithms results in the minimal average waiting time (over all process)?

  16

### Unit III

- 6. What is Segmentation? Discuss segmentation hardware with the help of diagram. What type of fragmentation can be caused by segmentation?
- 7. Discuss various page replacement algorithms.

16

### Unit IV

- Discuss various structuring techniques and interface for the operating systems that enable I/O devices to be treated in a standard, uniform way.
- (a) What are various implementation issues in device management? Explain.
- (b) Discuss swap space management.

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BSD/D-22

12089

# PROGRAMMING FUNDAMENTALS AND C BVSD-14

Time: Three Hours]

[Maximum Marks: 80

Note: Q. No. 1 is compulsory. In addition, attempt four more questions exactly selecting one question from each Unit. All questions carry equal marks.

1. Explain the following in brief:

4×4=16

- Computer languages
- History of C language
- Recursion
- (iv) Pointer assignment.

### Unit I

- 2 (a) What is a decision table? How can you draw a decision table? Explain using suitable examples. 8
- 9 Describe the various symbols used in a flowchart. number is prime or not. Draw a flow chart to check whether the input

(3-17/1) L-12089

P.T.O.

number from a given array passed to a function. 16	C? Write a user-defined function to return the highest	7. What is a function? How can you categorize functions in	given list of numbers. 8	(b) Write a program in 'C' to search a number from a	(ii) Scope and Lifetime of Variables.	(i) Automatic and Static Variables	6. (a) Distinguish between the following:	Unit III	describe operators.	hierarchy and associativity. Use suitable examples to	5. Explain various types of operators in C along with their	suitable examples in C. 8	(b) Describe the IF statement and its variations using	4. (a) Explain the data types in C language. 8	Unit II	programming?	(b) What is meant by documentation and debugging in	Interpreter. 8	3. (a) Differentiate between Assembler, Compiler and
																9.		œ	
															unions in C.	Differentiate	pointers.	Write a progra	

- Write a program in C to sort a given list of strings using pointers.
- Differentiate between arrays, pointers, structures and unions in C.

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BSD/D-22

Total Pages: 03

RDBMS-I BVSD-31

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

## Compulsory Question

- (a) What is database intension and extension?
- (b) List the rules proposed by Dr.E.F. Codd.
- (c) What are spurious tuple? How is it generated?
- (d) Differentiate between full and partial functional dependency.
- (e) Write SQL syntax to sort data in descending order.
- (f) What do you mean by bit map index?
- (g) State some features or programming constructs supported by PL/SQL.
- (h) What is the purpose of percentage data type?

  Explain with suitable examples. 8×2=16

(2-10/8) L-12090

#### Unit I

- (a) What are the important properties of Database Management System (DBMS)? Discuss DBMS advantages.
- (b) Outline and explain important components of three tier architecture of DBMS.
- (a) What is Data Model? Draw a comparison between hierarchical and network data model.
- (b) What is Relationship? Discuss relation type and relation constraints with example. 8+8=16

#### Unit II

- 4. (a) What is need of relational algebra? Explain select, project and union operations of relational algebra with example.
- (b) What is meant by join operations? Differentiate between equi-join and outer join with suitable example. 8+8=16
- What is Normalization? Why we need normalization?

  Draw and explain the similarities and dissimilarities between third normal form and BCNF. Which of the normal form is stronger among them?

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#### Unit III

 (a) Write the purpose and syntax of using update and alter statement with add, modify, drop and rename keywords.

6.

(b) What are Constraints? How do you implement primary key, foreign key and check constraints?

8+8=10

- (a) Write the purpose and syntax of the following SQL functions:
- ROUND( )
- (ii) ADD\_MONTHS()
- (iii) LTRIM()
- (iv) SUBSTR()
- (b) What are Views? Write the syntax to create and destroy view. 8+8=16

#### Unit IV

(a) What is labelling a PL/SQL loop? How PL/SQL loops iterate? Write a PL/SQL block using FOR-LOOP statement.

œ

(b) Discuss logical block structure of PL/SQL. How do assign SQL query result to PL/SQL variables?

8+8=1

- (a) What do you mean by cursor ? Write a specimen PL/SQL block to implement implicit cursor.
- (b) Write a detailed note on PL/SQL security. 8+8=16

(2-10/9) L-12090

Total Pages: 03

BSD/D-22

### SOFTWARE ENGINEERING BVSD-33

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory.

## (Compulsory Question)

- (a) What do you mean by software engineering? What development? Discuss. is the need of engineering approach to software
- 9 Differentiate between behavioral and non-behavioral requirements.
- <u></u> What are follow-ups? Who is responsible for these ?
- (d) What is validation testing?

### Unit I

the advantages and limitations of this model. Discuss the Waterfall model of software development. In what types of applications it should be used? Also explain

(3-13/3) L-12092

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	reference to	What is Software Crisis ? State its s
	to	vare
	software e	Crisis '
	engineering c	? State
	gning	its
0	discipline.	significance

9 attributes. Discuss the quality attributes of software. Provide a concise definition for each of the quality

### Unit II

- Ċ What is Coupling? Discuss various types of coupling Discuss the characteristics and components of Software Requirement Specification. 16
- using suitable examples. 16

### Unit III

- 6. (a) What are the benefits and limitations of code reviews and walkthroughs?
- 9 Discuss the steps involved in code inspection process
- 7. testing techniques using examples. What is functional testing? Discuss various functional 16

00 Discuss the following:

16

Validation Testing

(a)

- 0 9 Alpha Testing. System Testing
- 9. discuss its characteristics. Discuss various types of software maintenance. Also 16

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Total Pages: 02

BSD/D-22

### OBJECT ORIENTED PROGRAMMING WITH C++ BSVD-34

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question carry equal marks. from each Unit. Q. No. 1 is compulsory. All questions

Attempt any four of the following:

Explain the use of template class.

Write syntax of constructors and destructors.

0

9

Explain inline function.

- **a** Explain 'new' and 'delete' operators.
- (e) Explain the use of template class.

# Explain the following:

- Explain Data Hiding and Encapsulation using suitable example.
- 9 Explain Static data member and member function using suitable example.

(5-15/3) L-12093

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function usir	9. What is Ten		exception ha	8. Explain the		inheritance u	7. Explain the	function.	unary opera	<ol><li>What is Ope</li></ol>		(b) Explai	5. (a) Explai	4. Explain the		employee ar	
function using template class.	What is Template Class? Write a program to overload		exception handling. Write a program to catch all handlers.	Explain the various types of errors. Also explain the	Unit IV	inheritance using suitable example.	Explain the role of constructors and destructors	and formed the fall position of the	unary operator overloading with and without friend	What is Operator overloading? Also write a program for	Unit III	Explain Formatted and Unformatted I/O.	Explain new and delete operators.	Explain the roll and various types of constructors.	Unit II	employee and use friend function in it.	
16	overload	16	handlers.	plain the		16	uctors in	16	ut friend	ogram for		00	00	tors. 16		16	

L-12093

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Total Pages: 03

### BSD/D-22

CURRENT TECHNOLOGIES
BVSD-51

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all. Question No. 1 is compulsory. In addition to compulsory question, attempt four more questions, selecting one question from each Unit. All questions will carry equal marks.

## (Compulsory Question)

- (i) What are the different versions of the cloud ?
- (ii) What do you mean by cloud delivery models ?
- (iii) What do you mean by Long Jump?
- (iv) What is the relationship between OGSA, WSRF, and Web Services?
- (v) How is grid computing different from cluster and P2P Computing ?
- i) Explain the concept of Gaglia.
- (vii) Which of the following is an example of the cloud?
- Amazon Web Services (AWS)
- b) Dropbox
- ) Cisco WebEx
- All of the above

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L-12094 2	Explain Grid Monitoring Architecture. 16	What is OGSA? Describe how it extends Web Services with suitable illustration.	Unit III	Explain the following: 2×8=16	Describe the Google App Engine Architecture and Core Concepts.	Unit II	Describe the Cloud Computing Architecture. What are some issues with Cloud Computing?	drawback. 16	What is a Cloud Computing? What are some of the key features of Cloud Computing? And also explain the	Unit I	(c) client (d) All of the mentioned. 8×2=16	(b) soft	(a) cloud	(viii) Which architectural layer is used as a backend in cloud computing?
(5.73)												9. Explain various	8. Explain the con	

- scept of Grid Security with example. 16
- scheduling paradigm of Grid Scheduling.

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Total Pages: 03

### BSD/D-22

### E-COMMERCE BVSD-52

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question carry equal marks. from each Unit. Q. No. 1 is compulsory. All questions

## Compulsory Question

Distinguish between pure and partial e-Commerce.

9

- Write the benefit of e-commerce over traditional Commerce.
- © Write a note on information directories.
- **a** Briefly explain electronic banking system.
- <u>@</u> What is direct marketing?
- Describe the role of e-Commerce in financial services.
- What are web rings?
- How do you market an e-Business ? 8×2=16

(2-10/10) L-12095

#### Unit I

- Define e-Commerce. Discuss the features and issues related to e-Commerce. Explain customer to customer e-Commerce with suitable examples.

  16
- Explain in detail the drivers that promote e-Commerce and its applications. Why are they called drivers? Explain the generic framework of e-Commerce.

### Unit II

- Elaborate the different methods for transferring fund electronically. Discuss the use of payment gateways for consumers in India.
- 5. Differentiate between:
- (a) Prepaid and postpaid Electronic Payment System (EPS)
- (b) Card costs and non-card costs.

Unit III

### 8+8=16

6. Explain the concept of Supply Chain Management in detail. Why is it important to any industry or any organization? Illustrate by citing suitable examples. 16

are the issues and obstacles that are faced while adopting e-Commerce applications?

### Unit IV

- 8. (a) Write a detailed note on information directory and search engines. How you can make your search effective?
- (b) Explain backup procedure and recovery methods of e-Business transactions. 8+8=16
- 9. Discuss the following:

8+8=16

- (a) News Groups and Forums
- (b) Customer Communication.

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Total Pages: 03

BSD/D-22

# WEB TECHNOLOGY ASP.Net Dot Net BVSD-53

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question carry equal marks. from each Unit. Q. No. 1 is compulsory. All questions

## Compulsory Question

- Write short notes on the following:
- ASP.NET
- Validation Controls
- Authentication
- Impersonation
- Session Tracking
- State management
- Dynamically loaded user controls
- Proxy.

#### Unit I

Describe CLR and class libraries. Define web forms.

14

(2-19/3) L-12096

P.T.O.

00	
(a)	
Explain the security	
process	
for	
forms	
authentication.	

List various characteristics of ADO.NET.
 6

9. Explain the following:

(a) Output Caching

(b) Data Caching

) Data Caching.

L-12096

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Total Pages: 03

BSD/D-22

12097

### ADVANCED JAVA BVSD-54

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

## (Compulsory Question)

- (a) Enlist the various methods used in Applet lifecycle.
- (b) Enlist the various event classes that exists in java.awt.event package.
- (c) State the purpose of Stream Tokenizer class.
- (d) What are the various constructors used to create file objects?
- (e) Comment on the purpose of Grid layout.
- (f) How can you create a scroll bar in Java?
- (g) What is meant by a cookie?
- (h) What is the purpose of using JTree class ? 8×2=16

(5-15/4) L-12097

P.T.O

(a) and displays the result in Applet. input and find the sum of the digits of the number Create an applet in Java that receives a number as

9 Explain various methods in Graphics class using suitable examples.

(a) Explain delegation event model in detail.

3

9 Component event class. Write a program in Java to show the use of

### Unit II

4 (a) Write a program using String Tokenizer class to separate the tokens from a given string.

9 Write a program using ByteStream to merge contents of two files in a single file.

is Write a program in Java using character stream to count the number of characters and line in a given file.

### Unit III

6.

(a) Write a program in Java using Border Layout to and in the center it should display center. write left, right, top and bottom in the four borders

9 What is Flow layout ? Write a program in Java using flow layout,

> .7 Describe working of Canvas, Panel, Window and Frame class in AWT. 16

### Unit IV

00 (a) How can you create swing based applet ? Explain by writing a program.

9 How can you create popup menu using java swings? Explain using suitable example.

9. (a) How database is handled by servlet ? Explain.

9 How are requests handled by servlets ? Explain using suitable examples.

L-12097

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Total Pages: 03

# BBA/D-22 2

# BUSINESS ORGANISATION BBA-101

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all. Q. No. 1 is compulsory.

All questions carry equal marks.

कुल पाँच प्रश्नों के उत्तर दीजिए । प्रश्न संख्या 1 अनिवार्य है । सभी प्रश्नों के अंक समान हैं ।

# Compulsory Question (अनिवार्थ प्रश्न)

- (a) Define Business Ethics and their significance.
   व्यावसायिक नैतिकता और उसके महत्त्व को परिभाषित कीजिए ।
- (b) Mention the distinguishing features of Cooperative
  Form of Organisation.
  संगठन के सहकारी रूप की विशिष्ट विशेषताओं का उल्लेख
  कीजिए ।
- (c) Elaborate the various types of company.
  कंपनी के विभिन्न प्रकारों का विस्तार से वर्णन कीजिए।
- (d) Mention the reasons behind the formation of Trade Association.
  व्यापार संघों के गठन के कारणों का उल्लेख कीजिए ।

- (e) Explain the features and functioning of CII. सी.आई.आई. की विशेषताओं और कार्यों की व्याख्या कीजिए।
- 2. What do you understand by Partnership Deed? Explain its main contents. Also highlight the duties and responsibilities of partners involved therein. साझेदारी संलेख से आप क्या समझते हैं? इसकी मुख्य सामग्री को समझाइए । इसमें शामिल भागीदारों के कर्तव्यों और जिम्मेदारियों पर भी प्रकाश डालिए ।
- 3. Discuss the rules and procedures regarding the Incorporation of a Joint Stock Company. Also mention the key matters to be stated in the prospectus of a Joint Stock Company.

  संयुक्त स्टॉक कंपनी के निगमन से संबंधित नियमों और प्रक्रियाओं की चर्चा कीजिए। एक संयुक्त पूँजी कंपनी के विवरण-पत्र में
- 4. Why deciding a form of business organisation is quite relevant for success of any business? Discuss the factors that determine the choice of the form of an organisation. किसी भी व्यवसाय की सफलता के लिए व्यावसायिक संगठन के स्वरूप का निर्णय लेना क्यों आवश्यक है? संगठन के स्वरूप के चयन की निर्णित करने वाले कारकों की विवेचना कीजिए।

बताए जाने वाले प्रमुख मामलों का भी उल्लेख कीजिए

5. What is the scope of business activities of Multinational Corporations? Discuss the contribution of MNCs in India's economic development.

- बहुराष्ट्रीय निगमों की व्यावसायिक गतिविधियों का क्षेत्र क्या है ? भारत के आर्थिक विकास में बहुराष्ट्रीय कंपनियों के योगदान की चर्चा कीजिए।
- Examine the objectives and functioning of FICCI and ASSOCHAM.
- फिक्की और एसोचीम के उद्देश्यों और कार्यों का परीक्षण कीजिए।
- 7. Define Non-profit Organisation. How is it different from other forms of organisation? What kind of activities usually they are involved with?

  गैर-लामकारी संगठन को परिमाधित कीजिए। यह संगठन के अन्य रूपों से किस प्रकार मिन्न है ? वे आमतौर पर किस तरह की

गतिविधियों में शामिल होते हैं ?

8. Define Values. Why do businesses function according to their Value system? Mention certain examples of values usually pursued by Indian businesses.

मूल्यों को परिभाषित कीजिए। व्यवसाय अपनी मूल्य प्रणाली के अनुसार क्यों कार्य करते हैं ? आमतौर पर भारतीय व्यवसायों द्वारा

अपनाए जाने वाले मूल्यों के कुछ उदाहरणों का उल्लेख कीजिए।

### Unit IV (京南京 IV)

- 8. Justify the role of Government in economic development of US economy.

  24
  अमेरिकी अर्थव्यवस्था के आर्थिक विकास में सरकार की मूमिका की पुष्टि कीजिए।
- Explore the lessons for Indian economy from the growth experience of 'Asian Tigers'.
  'एशियन टाइगर्स' के विकास के अनुभव से भारतीय अर्थव्यवस्था के लिए सबक अन्वेषण कीजिए।

Roll No. ..... Tot

Total Pages: 04

# BBA/D-22

### MANAGERIAL ECONOMICS-I BBA-103

Time: Three Hours]

[Maximum Marks: 120

Note: Q. No. 1 is compulsory. Attempt four more questions selecting one question from each Unit. All questions carry equal marks.

प्रश्न संख्या 1 अनिवार्य है । प्रत्येक इकाई से एक प्रश्न चुनते हुए, चार प्रश्न और कीजिए । सभी प्रश्नों के अंक समान हैं ।

# Part A (भाग 'अ')

1. Attempt all questions:

3×5=15

- (a) Cultural Revolution.
- (b) Two features of British Economy.
- (c) Main industries of USSR.
- (d) Define the term 'Glasnost'
- (e) How is human development index computed ? सभी प्रश्नों के उत्तर दीजिए :
- (अ) सांस्कृतिक क्रांति

(ब) ब्रिटिश अर्थव्यवस्था की दो विशेषताएँ ।

ç,

- (स) यू.एस.एस.आर. के मुख्य उद्योग ।
- (६) 'ग्लासनोस्ट' शब्द को परिभाषित कीजिए ।
- (इ) मानव विकास सूचकांक की गणना कैसे की जाती है ?

### Part B (भाग 'ब')

Attempt three questions:

3×3=9

- (a) Features of US infrastructure.
- (b) Reasons of growth miracle of Singapore.
- (c) Two reasons of Industrial revolution in Britain.
- (d) Lessons for India from growth experience of Japan.
- (e) Developmental role of government in any economy.
   तीन प्रश्नों के उत्तर दीजिए :
- (अ) अमेरिकी बुनियारी ढाँचे की विशेषताएँ ।
- (ब) सिंगापुर के विकास चमत्कार के कारण ।
- (स) ब्रिटेन में औद्योगिक क्रांति के दो कारण ।
- (द) जापान के विकास के अनुभव से भारत के लिए सबक ।
- (इ) किसी भी अर्थव्यवस्था में सरकार की विकासात्मक भूमिका।

### Unit I (इकाई I)

N

Highlight the major features of transport and communication system of British economy.

24 ब्रिटिश अर्थव्यवस्था की परिवहन और संचार व्यवस्था की प्रमुख विशेषताओं पर प्रकाश डालिए।

Explain the features and trend of economic development of US economy.

24
अमेरिकी अर्थव्यवस्था के अर्थिक विकास की विशेषताओं और प्रवृत्तियों की व्याख्या कीजिए।

### Unit II (इकाई II)

- Discuss the contribution of entrepreneurship and technology in the overall economic development of Japan.

  24
  जापान के समग्र आर्थिक विकास में उद्यमिता और प्रौद्योगिको के योगदान की चर्चा कीजिए।
- 5. Explain in detail the Economic Reforms adopted by China. 24 चीन द्वारा अपनाए गए आर्थिक सुधारों को विस्तार से समझाइए ।

### Unit III (इकाई III)

- Explain how Glasnost and Perestroika become the causes of disintegration of USSR.
   स्मध्ट कीजिए कि ग्लासनोस्ट और पेरेस्ब्रोइका किस प्रकार सोवियत संघ के विघटन के कारण बने ?
- 7. Bring out the factors of speedy economic growth of Singapore economy.

  24
  सिंगापुर की अर्थव्यवस्था के तीव्र आर्थिक विकास के कारकों पर प्रकाश डालिए।

L-24003(TR)

2,740

How are International Financial Reporting Standards reconciled ? Explain. (IFRS) different from the Generally Accepted Accounting लेखा सिद्धांतों (GAAP) से कैसे भिन हैं ? दोनों (IFRS और अंतर्राष्ट्रीय वित्तीय रिपोर्टिंग मानक (IFRS) आम-तौर पर स्वीकृत Principles (GAAP)? How are the two (IFRS and GAAP) GAAP) का मिलान कैसे किया जाता है ? समझाइए ।

Total Pages: 06

BBA/D-22

### **BUSINESS ACCOUNTING** BBA-102

Time: Three Hours] [Maximum Marks: 80

Note: Attempt Five questions in all. Q. No. 1 is compulsory. कुल पाँच प्रश्नों के उत्तर दीजिए । प्रश्न संख्या 1 अनिवार्य All questions carry equal marks. । सभी प्रश्नों के अंक समान हैं ।

- 1. State and describe the following:
- (a) Accounting equation
- Rules of accounting (debit and credit) entry
- 0 Matching principle
- Generally Accepted Accounting Principles (GAAP)
- (e) Deferred revenue expenditure
- निम्निलिखित का उल्लेख कीजिए और उनका वर्णन कीजिए : Concept of conservatism. 3+3+2+3+3+2=16
- (अ) लेखा समीकरण
- लेखांकन (डेबिट और क्रेडिट) प्रविष्टि के नियम
- मिलान सिद्धांत
- आम-तौर पर स्वीकृत लेखा सिद्धांत (जी.ए.ए.पी.)
- आस्थिगत राजस्व व्यय
- (फ) रुद्धिवाद की अवधारणा ।

- What do you understand by 'Dual Aspect Concept' of accounting? Elucidate.
   लेखांकन की 'दोहरा पहलू अवधारणा' से आप क्या समझते हैं? स्मष्ट कीजिए।
- On January 1, 2022, the following were the ledger balances of ABC & Company:

Cash in hand: Rs. 900, Cash at Bank: Rs. 21,000, Soni (Cr): Rs. 3,000, Zahir (Dr.): Rs. 2,400, Stock: Rs. 12,000, Parsad (Cr.): Rs. 6,000, Sharma (Dr.): Rs. 4,500, Lall (Cr.) Rs. 2,700.

Ascertain the capital and the transactions during the month were:

and prepare	Journalise th		January 30		January 29	January 22	January 17	January 13	January 7		January 5	January 3	January 2	2022	
and prepare a Trial balance. 24	Journalise the above transactions and post to the ledger	Rent due to landlord	January 30 Provided interest on capital	Discount allowed by him	Paid to Parsad by cheque	Paid cash for stationery	Paid to Soni in full settlement	Received from Zahir in full settlement 2,350	Took goods for personal use	paid by cheque	Bought goods from Lall for cash,	Sold goods to Sharma	Bought goods from Parsad		
2+5+5+4=16	the ledger	200	100	50	2,650	50	2,950	ment 2,350	200	3,600	4	3,000	2,700	(Rs. '000)	

। जनवरी, 2022 को एबीसी एंड कंपनी के बड़ी खाते के शेष निम्नलिखित थे :

हाथ में नकद : 900 रुपये, बैंक में नकद : 21,000 रुपये, सोनी (जमा) : 3,000 रुपये, जहीर (नाम) : 2,400 रुपये, स्टॉक : 12,000 रुपये, प्रसाद (जमा) : 6,000, शर्मा (नाम) : 4,500 रुपये, लाल (जमा) 2,700 रुपये।

महीने के दौरान पूँजी और लेन-देन निम्नलिखित मानिए :

 2022
 (Rs. '000)

 जनवरी 2
 प्रसाद से माल खरीदा
 2,700

 जनवरी 3
 शर्मा को माल बेचा
 3,000

 जनवरी 5
 लाल से नकद में माल खरीदा, चैक
 3,600

 से भगतान किया
 3,600

उपर्युक्त लेन-देन को जर्नलाइज कीजिए और खाता बही में पोस्ट कीजिए और एक तलपट तैयार कीजिए । जनवरी 22 जनवरा 30 जनवरी 29 जनवरी 17 जनवरी 13 जनवरी 7 पूँजी पर ब्याज प्रदान किया चेक द्वारा प्रसाद को भुगतान स्टेशनरी के लिए नकद मुगतान सोनी को पूर्ण बंदोबस्त का भुगतान उसके द्वारा अनुमत छूट जहीर से पूर्ण बंदीबस्त प्राप्त हुआ निजी इस्तेमाल के लिए सामान लिया मकान मालिक को देव किराया से भुगतान किया 2,650 2,950 2,350 3,600 100 200

From the following balances extracted from the books of M/s Rajendra Kumar & Sons, prepare a trading, profit and loss account and balance sheet:

वर्ष के अंत में		देय बिल	लेनदार	पूँजी	जावक भाड़ा	मुद्रण शुल्क	फर्नीचर	आवक भाड़ा
वर्ष के अंत में स्टॉक का मूल्य 3,700 रुपये था।	डूबत ऋण	541 खुदरा रोकड़ हाथ में	1,780 क्रय	9,228 बैंक अधिविकर्ष	200 आवक वापसी	481 मजदूरी	670 प्राप्य बिल	300 छूट (नाम)
	180	47	8,679	4,000	1,659	1,589	2,730	328

5. What are different types of errors escaped in preparations of trial balance? How are these errors rectified? Explain.

16 तलपट तैयार करने में कौन-सी विभिन्न प्रकार की बुटियाँ खूट जाती है ? इन बुटियों को कैसे सुधारा जाता है ? समझाइए।

- 6. Write a detailed note on the operational functioning of the advanced Tally software in accounting.

  16 लेखांकन में उन्तत टैली सॉफ्टवेयर की परिचालन कार्यप्रणाली पर एक विस्तृत टिप्पणी लिखिए ।
- 7. State and differentiate between the capital expenditure and the revenue expenditure with suitable examples. 16 उपयुक्त उदाहरणों के साथ पूँजीगत व्यय और राजस्व व्यय के बीच अंतर बताइए।

- Find the middle term in the expansion of  $\left(x+\frac{1}{x}\right)^{6}$ .
- (f) Find X and Y if  $X+Y=\begin{pmatrix} 7 & 0 \\ 2 & 5 \end{pmatrix}$  and

$$X - Y = \begin{pmatrix} 3 & 0 \\ 0 & 3 \end{pmatrix}.$$

- (g) If  $A = \begin{pmatrix} 2 & 1 \\ 3 & 5 \end{pmatrix}$ ; find  $(A)^{-1}$ .
- (h) Find  $\frac{dy}{dx}$ , if  $x = 9t^2 + 7$ , y = 36t 3.

Total Pages: 04

BBA/D-22

# BUSINESS MATHEMATICS-I BBA-104

Time: Three Hours] [Maximum Marks: 80

Note: Attempt Five questions in all, including the Q. No. 8 which is compulsory. All questions carry equal marks.

1. (a) Prove that:

$$A \cup (B \cup C) = (A \cup B) \cup C$$

(b) Prove by constructing truth table that :

$$\sim (p \Leftrightarrow q) = (p \sim q) \vee (p \sim p \wedge q)$$

- If  ${}^5P_r = 2. {}^6P_{r-1}$ , find r

$$\frac{4}{2x+1} + \frac{1}{2x-11} = \frac{5}{2x+5}$$

From 6 gentlemen and 4 ladies, a committee of 5 is to be formed, so as to include at least one lady. In how many ways can this be done?

(b) Find the 2nd and 7th term in the expansion of

$$\left(\frac{x^2}{2},\frac{2}{x^2}\right).$$

i. (a) Evaluate:

$$\lim_{x \to 2} \frac{x^2 - 4}{\sqrt{3x - 2} - \sqrt{x + 2}}$$

(b) If 
$$y = (x^2 + 1)^2 \sqrt{2x - 5}$$
, find  $\frac{dy}{dx}$ .

- 5. (a) Differentiate the function  $x^x e^{2x+5}$  w.r.t. x.
- (b) Find the local maximum and local minimum values of the function:

$$x^3 - 6x^2 + 9x + 15$$

6. (a) Solve the following system of equations by Cramer's

$$6x+y-3z=5$$

$$x+3y-2z=5$$

$$2x+y+4z=8$$

(b) If  $A = \begin{pmatrix} 2 & 3 \\ 1 & 2 \end{pmatrix}$ , show that  $A^2 - 4A + I_2 = 0$ . Hence

find A-1.

7. (a) If  $A = \begin{pmatrix} 3 & -1 & 2 \\ 4 & 0 & 5 \end{pmatrix}$  and  $B = \begin{pmatrix} -1 & 2 \\ 3 & -3 \\ -5 & 0 \end{pmatrix}$ , then show

that

$$(AB)' = B'A'$$

Also find adj [(AB)].

Find the inverse of the matrix 
$$A = \begin{bmatrix} 1 & 3 & -3 \\ 1 & 3 & -3 \end{bmatrix}$$
.

# Compulsory Question

- 1. (a) Construct a truth table for  $-p \vee -q$ .
- (b) In a class of 60 girls, there are 45 girls who play tennis and 30 girls play cricket. Also each girl likes to play at least one game. Find how many girls play both the games.
- (c) Evaluate:

$$\lim_{x \to 2} \frac{x^2 - 5x + 6}{x^2 - 4}$$

(d) Solve the equation:

$$8x-2=\frac{3}{x}$$

(2-29/2) L-24004

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24005

HINDI

BBA-105

Time: Three Hours]

[Maximum Marks: 80

नोट : सभी प्रश्नों के निर्देशानुसार उत्तर दीजिए ।

- राष्ट्रपति के अध्यादेशों का वर्णन कीजिए ।

निर्मालिखित में से किन्हीं चार प्रश्नों के उत्तर दीजिए : 4×10=40

- केन्द्रीय सरकार की हिन्दी शिक्षण-योजना पर प्रकाश डालिए ।
- अर्द्धसरकारी पत्र को उदाहरण देकर लिखिए ।
- 3 विज्ञापन क्या है ? उदाहरण सहित विस्तारपूर्वक समझाइए।
- निविदा सूचना से आपका क्या अभिप्राय है ? उदाहरण देकर लिखिए
- अनुवाद के स्वरूप बताते हुए उसकी प्रकृति का वर्णन कीजिए ।
- (vii) पल्लवन क्या है ? इसके गुण बताइए ।
- (viii) संक्षेपण का अर्थ बताते हुए, उसकी विधि एवं गुण का वर्णन कीजिए ।
- (i) विज्ञापन और वाणिज्य निर्मालिखित में से किसी एक विषय पर 300 शब्दों में एक निबंध लिखए :

(2-13/1) L-24005

- $\Xi$ विणिज्य अध्ययन में हिंदी की उपयोगिता
- (H) महँगाई
- (iv) काला धन अञ्चलकार
- 3 वैश्वीकरण और भारतीय उद्योग ।
- निप्नलिखित परिभाषिक शब्दों को हिन्दी में लिखिए :

14

- (i) Adverse entry (ii) Circular
- $\equiv$ Demi official letter (iv) Face value (vi) Mover
- Industrious

(vii) Levy

- (viii) Repudiate
- Survey of General Tariff

(ix)

- (x) Write
- (X) (xiii) Pact (xii) Paucity (xiv) Nayes.
- 4. Use the following terminology in your own sentence so as to make their meaning clear:
- In order of merit
- $\Xi$ As far as practicable
- (E) Void of common sense
- (FV) In course of time
- 3 On compassionate ground
- (F) According to one's ability
- Black sheep of society
- (viii) Concillation officer

- (ix) Sticky loan
- 8 Housing boom
- X. Issued
- (xii) Ought to be going
- (xiii) At hand
- (xiv) Will you eat bread?

(2-13/2) L-24005

Roll No. 22 00000 22

Total Pages: 05

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3/0

# COMPUTER FUNDAMENTALS BBA-106

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all. Q. No. 1 is compulsory.

In addition to that attempt four more questions. All questions carry equal marks.

कुल पाँच प्रश्नों के उत्तर दीजिए । प्रश्न संख्या 1 अनिवार्य है । इसके अतिरिक्त चार और प्रश्न कीजिए । सभी प्रश्नों

(a) What are the various types of computer? कम्प्यूटर के विभिन्न प्रकार क्या है ?

अंक समान हैं।

- (b) Differentiate between CUI and GUI. सी.यू.आई. और जी.यू.आई. के बीच अंतर बताइए ।
- (c) What do you mean by IP address? आई.पी. एड्रेस से आपका क्या आशय है ?
- (d) What are the various types of margins setting in MS-Word?

  एमएस-वर्ड में मर्जिन सेटिंग के विभिन्न प्रकार क्या है ?

- (e) Comment on the purpose of slide sorter view. स्लाइड सॉर्टर ब्यू के उद्देश्य पर टिप्पणी कीजिए ।
- (f) What is meant by fill handle in MS-Excel? 16 एम.एस.-एक्सेल में फिल हैंडल का क्या अर्थ है ?
- (a) Explain the purpose of the following in Excel: 8
- (i) Auto Format
- (ii) Formula Bar
- (iii) Auto Correct
- (iv) Filter.एक्सेल में निम्निलिखित के उद्देश्य की व्याख्या कीजिए
- (i) ऑटो प्रारूप
- (ii) फॉर्मूला बार (iii) ऑटो करेक्ट
- (iv) फिल्टर ।
- (b) How can you create charts in MS-Excel? Explain various types of charts that can be developed in Excel.

  8

  अाप एम.एस.-एक्सेल में चार्ट कैसे बना सकते हैं? एक्सेल में विकसित किए जा सकने वाले विभिन्न प्रकार के चारों

- 3. (a) Explain any four types of slides in detail. 8 किन्हीं चार प्रकार की स्लाइडों का विस्तार से वर्णन कीजिए।
- (b) Explain various types of views used in Power-point 8 in detail.

  पॉवर-प्वाइंट में प्रयुक्त होने वाले विभिन्न प्रकार के व्यूज को विस्तार से समझाइए ।
- . (a) How can you perform the following in MS-Word? 8
- (i) Change case
- (ii) Check spelling and grammar
- (iii) Alignments
- (iv) Inserting comments. निम्नलिखित का प्रदर्शन आप एम.एस.-वर्ड में कैसे कर सकते हैं ?
- i) केस बदलना
- (ii) वर्तनी और व्याकरण की जाँच करना
- (iii) सरेखण
- (iv) टिप्पणियाँ सम्मिलित करना ।
- (b) Explain various steps to add a hyperlink in MS-Word.

  एमएस-वर्ड में हाइपरिलंक जोड़ने के विभिन्न चरणों की व्याख्या कीजिए ।

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की व्याख्या कींजए।

- ż Explain various topologies for LAN along with their advantages and disadvantages.
- लैन के लिए विभिन्न टोपोलॉजी को उनके लाभ और हानियों सहित समझाइए

कींबर ।

What do you mean by e-Mail? How e-Mail is better as compared to normal postoffice mail? Name a few servers that provide facility to create your e-Mail account. Discuss facility provider. various types of services provided by a standard e-Mail 16

ई-मेल से आप क्या समझते हैं ? सामान्य पोस्ट ऑफिस मेल की बताइए जो आपका ई-मेल खाता बनाने की सुविधा प्रदान करते हैं। तुलना में ई-मेल किस प्रकार बेहतर है ? कुछ सर्वरों के नाम एक मानक ई-मेल सुविधा प्रदाता द्वारा प्रदान की जाने वाली विभिन प्रकार की सेवाओं की चर्चा कीजिए।

Describe the working of a computer using block diagram along with major components of a computer. Discuss the करते हुए कम्प्यूटर की कार्यप्रणाली का वर्णन कीजिए । कम्प्यूटर के कम्प्यूटर के प्रमुख घटकों के साथ-साथ ब्लॉक आरेख का उपयोग various applications and limitations of computer. विभिन अनुप्रयोगों एवं सीमाओं की चर्चा कीजिए। 16

- (a) Discuss the major features and drawbacks of विंडोज की प्रमुख विशेषताओं Windows. और कमियों 왕 चर्चा
- 9 Discuss the various ways to connect to an internet. 8 इंटरनेट से जुड़ने के विधान तरीकों की चर्चा कीजिए।

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VD-22 2

## UNDERSTANDING HUMAN BEHAVIOUR BBA-201

Time: Three Hours]

[Maximum Marks: 80

Note : Attempt Five questions in all. Q. No. 1 is compulsory. कुल पाँच प्रश्नों के उत्तर दीजिए । प्रश्न संख्या 1 अनिवार्य है।.

- Short answer type questions :
- i) Define behaviour.
- ii) What is the nature and meaning of personality.
- (iii) What is the nature and meaning of perception ?
- (iv) Define Learning.
- (v) What is the nature of emotions?
- vi) What are the main causes of forgetting?
- लघु उत्तरीय प्रश्न :
- व्यवहार को परिभाषित कीजिए ।
- व्यक्तित्व की प्रकृति और अर्थ क्या है ?
- iii) धारणा की प्रकृति और अर्थ क्या है ?
- (iv) अधिगम को परिभाषित कीजिए ।
- (v) भावनाओं की प्रकृति क्या है ?
- (vi) विस्मरण के मुख्य कारण क्या हैं?
- cognitive approach.

संज्ञानात्मक उपागम की सहायता से मानव व्यवहार की प्रकृति की व्याख्या कीजिए ।

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- Explain social learning theory and its implication for work behaviour. सामाजिक शिक्षण सिद्धांत और कार्य व्यवहार के लिए इसके निहितार्थ की व्याख्या कीजिए ।
- 4. What are the different types of emotions? Explain with the help of physiological symptoms of emotions. संवेग कितने प्रकार के होते हैं ? संवेगों के शारीरिक लक्षणों की सहायता से व्याख्या कीजिए ।
- 5. What is the nature of motivation? Explain two factors theory of motivation and its implications for work behaviour.
  अभिप्रेरणा की प्रकृति क्या है ? अभिप्रेरणा के द्वि-कारक सिद्धांत और कार्य व्यवहार के लिए इसके निहिताथों की व्याख्या कीजिए।
- 6. What are the laws of perceptual organisation? How do they affect perception? Explain with the help of suitable examples.
  प्रत्यक्षणात्मक संगठन के नियम क्या हैं? वे धारणा पर कैसे प्रभाव डालते हैं? उपयुक्त उदाहरणों की सहायता से व्याख्या कीजिए।
- 7. What is operant conditioning theory of learning? How do the principles of operant conditioning help in shaping of human behaviour? अधिगम का क्रियाप्रसूत अनुबंधन सिद्धांत क्या है? क्रियाप्रसूत अनुबंधन के सिद्धांत मानव व्यवहार को आकार देने में किस प्रकार सहायता करते हैं?
- "Memory and forgetting both go side by side." Discuss.
   "स्मृति और विस्मरण दोनों साथ-साथ चलते हैं।" विचार-विमर्श कीजिए।

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## BBA/D-22

### MICRO BUSINESS ENVIRONMENT BBA-202

Time: Three Hours] [Maximum Marks: 80

Note: Attempt Five questions in all. Q. No. 1 is compulsory.
All questions carry equal marks.
कुल पाँच प्रश्नों के उत्तर दीजिए । प्रश्न संख्या 1 अनिवार्य है । सभी प्रश्नों के अंक समान हैं ।

- 1. Write short notes on the following:
- a) Country risk
- b) Demographic Environment
- (c) Economic System
- ) SWOT analysis
- e) PSUs
- (f) Business ethics.

निर्मालिखित पर संक्षिप टिप्पणियाँ लिखिए :

- (अ) देश जीखिम
- (ब) जनसांख्यिकीय पर्यावरण
- (स) आर्थिक प्रणाली

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- (द) एस.डब्ल्यू.ओ.टी. विश्लेषण
- (इ) सार्वजनिक क्षेत्र के उद्यम
- (फ) व्यावसायिक नैतिकता ।
- 2. How business environment is dynamic in nature? What factors trigger changes in the business environment? व्यावसायिक वातावरण किस प्रकार गतिशील होता है? कारोबारी माहौल में कौनसे कारक परिवर्तन को ट्रिगर करते हैं?
- 3. Why should social responsibility be social objective of business? How far social objective affects economic objective of the firm?

सामाजिक उत्तरदायित्व व्यवसाय का सामाजिक उद्देश्य क्यों होना चाहिए ? सामाजिक उद्देश्य फर्म के आर्थिक उद्देश्य को कहाँ तक प्रभावित करता है ?

4. What do you mean by environment scanning? Discuss the techniques of environment scanning. पर्यावरण स्कैनिंग से आप क्या समझते हैं ? पर्यावरण स्कैनिंग की

तकनीकों पर चर्चा कीजिए।

5. What are the objectives of economic planning in India? What types of plans are worked upon in Indian economy? भारत में आर्थिक नियोजन के क्या उद्देश्य हैं ? भारतीय अर्थव्यवस्था में किस प्रकार की योजनाओं पर कार्य किया जाता है ?

- 6. Explain the nature of business ethics. What ethical standards modern companies can set in the present times? व्यावसायिक नैतिकता की अकृति की व्याख्या कीजिए । वर्तमान समय में आधुनिक कम्पनियाँ कीनसे नैतिक मानक निर्धारित कर सकती हैं?
- Discuss the impact of regulatory framework on industrial structure and performance.
   औद्योगिक संरचना और प्रदर्शन पर नियामक ढाँचे के प्रभाव की चर्चा कीजिए ।
- 8. Write a detailed note on Competition Act. How does it affect the competitive environment of a country? प्रतिस्पर्धा अधिनयम पर विस्तृत टिप्पणी लिखिए । यह किसी देश के प्रतिस्पर्धी माहौल को कैसे प्रभावित करता है ?

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- सूचकांक संख्याएँ क्या होती हैं?
- ii) सूचकांक संख्याओं के उपयोग क्या है
- भारित सूचकांक बनाने की किन्हीं दो विधियों की गणना कीजिए ।
- (iv) फिशर विधि अन्य विधियों से किस प्रकार श्रेष्ठ है ?

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#### BUSINESS STATISTICS-I BBA-203

Time: Three Hours]

[Maximum Marks: 80

Note: Q. No. 1 is compulsory and each part of it carries 2 marks. Attempt *four* questions out of the remaining questions. Each question carries 16 marks.

प्रश्न क. 1 अनिवार्य है और इसके प्रत्येक भाग के 2 अंक हैं। शेष प्रश्नों में से चार प्रश्न कीजिए। प्रत्येक प्रश्न 16 अंक का है।

- 1. Explain the following in upto 50 words each:
- (a) Use of statistics in management decisions
- Observation method of data collection
- (c) Histogram
- d) Pictorial diagram
- e) Line chart
- (f) Merits and suitability of Mode
- g) Moments and Kurtosis
- (h) Name of Weighted Index Methods निम्नलिखित प्रत्येक को अधिकतम 50 शब्दों में समझाइए :
- (अ) प्रबंधन निर्णयों में सांख्यिकी का उपयोग
- (ब) डेटा संग्रह की अवलोकन विधि

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(इ) लाइन चार्ट

(फ) बहुलक के गुण तथा उपयुक्तता

(ग) आधूर्ण और कटोंसिस

(ह) भारित सूचकांक विधियों का नाम ।

 The following table gives the frequency distribution of the weekly-wages (in '000 Rs.) of 200 workers in a factory:

		50 - 54							
200	15	23	30	41	35	22	20	14	No. of Workers

Draw the histogram and frequency polygon of the distribution.

निम्निलिखित गतिका एक कारखाने में 200 श्रमिकों की साप्ताहिक मजदूरी ('000 रुपये में) का बारंबारता वितरण देती है :

25 - 29	20 - 24	साप्ताहिक मजदूरी
		श्रमिकों
20	14	왕,
		संख्या

बंटन क							
। आयतिचत्र	कुल	55 - 59	50 - 54	45 - 49	40 - 44	35 - 39	30 - 34
वंटन का आयतचित्र और वारंबारता बहुभुज बनाइए		) THE 1991					
बहुभुज बनाइए ।	200	15	23	30 05	41 08	35	22

- Explain meaning and sources of secondary data. Also explain any *two* methods of collecting primary data. द्वितीयक समंकों का अर्थ और स्रोत स्पष्ट कीजिए । प्राथमिक आँकड़ों को एकत्रित करने की किन्हीं दो विधियों को भी समझाइए।
- Arithmetic mean of a continuous series and discrete series;
  Harmonic Mean, Median, Mode, Standard deviation,
  Variance, Coefficient of variation and Geometric mean.
  निर्मालिखित की गणना के सूत्र लिखिए :
  एक सतत् शृंखला और असतत् शृंखला का अंकगणितीय माध्य;
  हामोनिक माध्य, माध्यिका, मोड, मानक विचलन, विचरण, विचरण का गुणांक और ज्यामितीय माध्य।
- 5. Calculate the Mode, Median and Arithmetic Mean from \*he following data:

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Explain various methods of	80 - 90	70 - 80	60 - 70	50 60	40 - 50	30 - 40	20 - 30	10 - 20	0 - 10	वर्ग.	की गणना कीजिए :	निम्नलिखित आँकड़ों से बहुलक,	80 - 90	70 - 80	60 - 70	50 - 60	40 - 50	30 - 40	20 - 30	10 - 20	
methods of collecting primary	05	10	15	15	. 20	15	15	10	0.5	आवृत्ति			05	10	15	15	20	15	. 15	10	

णितीय माध्य

Expla of conducting survey. explain the difference between sample and census method. व्याख्या कीजिए । सर्वेक्षण करने की प्रतिदर्श और जनगणना पद्धति प्राथमिक आँकड़ों को एकत्रित करने की विभिन्न विधियों data. Also

में अंतर भी स्पष्ट कीजिए।

For the following data prove that the Fisher's Ideal Index satisfies both the Time reversal test and Factor reversal

tests : Commodity Base Price A 6 A 6 B 2 C 4 D 10 Finder आंकड़ों के वि हिमालिखित आंकड़ों के वि हमालिखित आंकड़ों के वि
Year Quanti 50 100 60 30 तर सिद्ध परीक्षण मा
Current Year ty Price Quantity 10 56 10 56 2 120 6 60 112 24 कीजिए कि फिशर का आदर्श कीजिए कि फिशर का आदर्श कीजिए कि फिशर का आदर्श विष्य मात्रा वालू वर्ष वालू वर्ष वालू वर्ष 110 56 00 10 56 00 6 6 60

90 Answer the following questions:

What are index numbers?

(E) What are uses of index numbers?

Enumerate any two methods of constructing weighted index numbers.

(v) How Fisher's method is better than other methods?

P.T.O.

(v) ₹ 2,00,000 का लाभ अजित करने के लिए आवश्यक विक्री ।

 बिक्की
 8,00,000

 घटाया : परिवर्ती लागत
 6,00,000

 घटाया : निश्चित लागत
 योगदान
 2,00,000

 घटाया : निश्चित लागत
 खुद्ध लाभ
 1,40,000

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MANAGEMENT ACCOUNTING

BBA-204

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all. Q. No. 1 is compulsory.
All questions carry equal marks.
कुल पाँच प्रश्नों के उत्तर दीजिए । प्रश्न संख्या 1 अनिवार्य

1. Explain the following in brief: 3+3+2+3+3+2=16

है। सभी प्रश्नों के अंक समान है।

- (i) Explain any four characteristics of Management Accounting.
- (ii) Cost Sheet
- (iii) Meaning of Budget
- (iv) Break-even Point
- (v) Classification of Cost
- (vi) Activity Based Costing. निर्मालीखत की संक्षेप में व्याख्या कीजिए :
- प्रबन्धकीय लेखांकन की किन्हीं चार विशेषताओं का वर्णन कीजिए ।

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- 3 लागत ౺Я
- बजट का अर्थ
- (iv) सम-विच्छेद बिन्दु
- 3 लागत का वर्गाकरण
- 3 गतिविधि आधारित लागत
- 2. Management Accounting. are its functions? Also explain the main techniques of What is the meaning of Management Accounting? What 16

प्रबन्धकीय लेखांकन की मुख्य तकनीकों का वर्णन भी कीजिए । प्रबन्धकीय लेखांकन का क्या अर्थ है ? इसके क्या कार्य हैं ?

- S लागत लेखांकन क्या है ? इसके क्या उद्देश्य हैं ? लागत लेखांकन explain the methods of costing What is Cost Accounting? What are its objectives? Also विधियों का वर्णन भी कीजिए। 16
- control What do you mean by Budgetary Control? What are its advantages? Also describe the limitations of budgetary

हैं ? बजटरी नियन्त्रण की सीमाओं का वर्णन भी कीजिए । बजटरी नियन्त्रण से आपका क्या अभिप्राय है ? इसके क्या लाभ 16

> in Explain the following in brief:

5+5+6=16

- Five characteristics of Standard Costing
- 3 Target Costing
- Flexible Budget.

निम्नलिखित की संक्षेप में व्याख्या कीजिए :

- प्रमाप लागत की पाँच विशेषताएँ
- $\Xi$ लोशत लागत
- परिवर्तनशील बजट ।
- वर्णन भी कीजिए। कौनसे पग उठाए जाते हैं ? उत्तरदायित्व लेखांकन के लागों का उत्तरदायित्व लेखांकन का क्या अर्थ है ? इसको लागू करने के लिए advantages of Responsibility Accounting. are being taken for introducing it? Also discuss the What is meant by Responsibility Accounting? What steps 16
- manufacture of a product : Below is the enumerated expenditure for a year in the 16

Electric Power Fuel Raw Material 56,000 Rent (Factory) 14,000 Tax & Insurance (Factory) 2,800 Depreciation on Machine

L-24011

(3-41/10)]\_-24011

L-24011 4	प्रकाश तथा पानी 800	दुलाई व्यय 4,000	मरम्मत 4,800 विक्रय पर भाड़ा 400	मजदूरी 1,26,000 विक्रय प्रतिनिधि का वेतन 1,600	प्रक्रिया एवं सामान्य विज्ञापन 1,000	विद्युत शवित 2,800 मशीन पर ह्वास 4,800	ईंधन 14,000 कर तथा बीमा (कारखाना) 800	कच्चा माल 56,000 किराया (कारखाना) 4,000			A NAME OF TAXABLE OF T	गर जगार के निर्माण में गर वर्ष में निम्निनित लगा किये	production.	for each item of expenses and also the total cost of the	Prepare a cost sheet for the year showing cost per unit	Units manufactured 40,000	Expenses (Office) 10,000	Administrative	Office Salary 14,000	Light & Water 800	Carriage Inward 4,000	Repairs 4,800 Carriage on Sales 400	General Wages 1,26,000 Salaries to Sales Agent 1,600	Process and Advertisement 1,000	
0-4111511_24011 5 P.T.O.		(iii) ₹ 10,00,000 की विक्री पर लाभ	(ii) सम-विच्छेद बिन्दु	(i) लाभ-मात्रा अनुपात	निर्मालिखित से ज्ञात कीजिए :	Net Profit 1,40,000	Less: Fixed Cost 60,000	Contribution 2,00,000	Less: Variable Cost 6,00,000	Sales 8,00,000	*	(v) Kequired sales to earn a profit of ₹ 2,00,000		(iv) Margin of Safety from the sale of ₹ 12 00 000	(iii) Profit for the sale of ₹ 10,00,000.	(ii) B.E.P.	(i) P/V Ratio	8. From the following find out:	प्रति इकाई लागत तथा उत्पादन की कुल लागत दर्शांची गयी हो।	वर्ष के लिए लागत-पत्र तैयार कीजिए जिसमें व्यय के प्रत्येक मद की	निर्मित इकाइयाँ 40,000	कार्यालय 10,000	प्रशासिनक व्यय	कार्यालय चेतन 14,000	

Total Pages: 02

### BBA/D-22

2

FUNDAMENTALS OF DBMS & ORACLE BBA-205

Time: Three Hours]

[Maximum Marks: 80

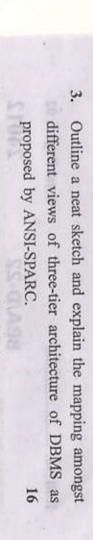
Note: Attempt Five questions in all. Q. No. 1 is compulsory.

All questions carry equal marks.

# Compulsory Question

- (a) What do you mean by keys? Discuss primary key, unique key and foreign key.
- (b) What is data independence? Differentiate between physical and logical data independence.
- (c) Why do we use group by and order by clause in SQL?
- (d) Draw comparison among any two types of SQL operators.
- (e) Distinguish between group and scalar functions.
- What are the important properties of Data Base Management System (DBMS)? Elaborate the advantages of DBMS over traditional file based approach. Write in brief about DBMS components.

(2-22/14) L-24012



. What is meant by Data Model? Distinguish between hierarchical and network data model along with database anomaly, advantages and disadvantages.

16

Discuss the uses of computer for the following:

(a) Inventory control system

Banking and accounting.

8+8=16

 What is SQL? Discuss data types used in SQL. Write the purpose, syntax and example of create and insert SQL statements.

Distinguish between the following along with its syntax and example:

(a) Alter and update SQL statement

(b) Delete; Drop and Truncate SQL statement

 What are the advantages of report writing? List and explain the commands to be used for report writing.

L-24012

Total Pages: 03

### BBA/D-22

### **BUSINESS COMMUNICATION-II** BBA-206

Time: Three Hours] [Maximum Marks: 80

Note: Attempt Five questions in all, including the compulsory अनिवार्थ प्रश्न संख्या 1 सहित कुल पाँच प्रश्नों के उत्तर Q. No. 1. All questions carry equal marks. दीजिए । सभी प्रश्नों के अंक समान हैं ।

# Compulsory Question ( अनिवार्य प्रश्न)

- Write a short note on public speaking. सार्वजनिक भाषण पर संक्षिप्त टिप्पणी लिखिए-। 2.5
- (ii) Briefly describe the importance of Effective Listening. प्रभावी श्रवण के महत्व का संक्षेप में वर्णन कीजिए।
- What are the essentials of Telephonic Conversation? टेलीफोनिक वार्तालाप के आवश्यक तत्व क्या है ?
- Write a short note on commercial letter writing. 3.5 व्यावसायिक पत्र लेखन पर संक्षिप टिप्पणी लिखिए ।

(3-49/7) L-24013(TR)

- (v) Discuss briefly the role of communication structure in an organization.

  2.5
  एक संगठन में संचार संरचना की भूमिका की संक्षेप में चर्चा कीबिए ।
- (vi) Write a note on Non-Verbal Communication. 2.5 अमीधिक संचार पर एक टिप्पणी लिखिए ।
- Discuss in detail the importance and Nature of Business
  Communication.
   व्यापार संचार के महत्व और प्रकृति पर विस्तार से चर्चा कीचिए ।
- Describe the barriers and gateways in communication. 16 संचार में बाधाओं और गेटबे का वर्णन कीजिए ।
- 4. What are the essential steps for writing academic reports?

  Comment on the role of the presentation of reports. 16

  अकारमिक रिपोर्ट लिखने के लिए आवश्यक करम क्या है ?

  प्रतिवेदनों के प्रस्तुतीकरण की भूमिका पर टिप्पणी कीजिए।
- 5. Discuss various aspects of mechanics of writing? 16 लेखन की यांत्रिकी के विभिन्न पहलुओं पर चर्चा कीजिए।
- 6. Define Organization Communication. Describe the components of organization communication. 16 संगठन संचार को परिभाषित कीजिए संगठन संचार के घटकों का वर्णन कीजिए।

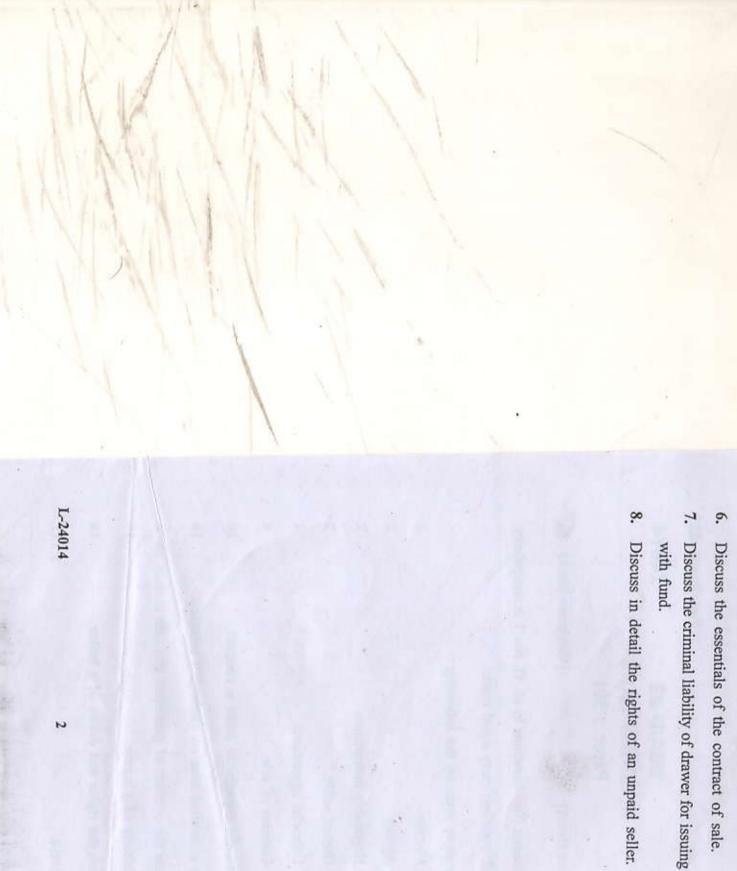
- 7. Describe the essential elements of Business Writing. 16 व्यावसायिक लेखन के आवश्यक तत्वों का वर्णन कीविए ।
- 8. Discuss the importance of effective business communication skills.

  16
  प्रभावी व्यावसायिक संचार कौशल के महत्व पर चर्चा कीजिए ।

L-24013(TR)

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P.T.O.	(5-29/13)L-24014	Ŷ
16	5. Discuss the rights and duties of a bailee.	Oi
16	the liability of a surety.	
discuss abo	4. Discuss the contract of guarantee and also discuss about	4
acts. 16	3. Write a detailed note on contingent contracts.	·u
16	2. Discuss the capacity to make a contract.	2.
	(f) Contract of sale.	
	(e) Unlawful agreements	
	(d) Unpaid seller	
	(c) Negotiable instruments	
	(b) Agency	
	(a) Mistake	
	1. Write short notes on the following:	-
	All questions carry equal marks.	
is compulsor	Note: Attempt Five questions in all, Q. No. 1 is compulsory.	Z
[Maximum Marks: 80	Time : Three Hours] [Maxin	크
	BUSINESS LAWS-I Paper: 301	
24014	BBA/D-22	
Total Pages: 02	Roll No	R



6.
Discuss
the
essentials
of
the
contract
of
sale

16

Discuss the criminal liability of drawer for issuing cheques

16

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Total Pages: 03

#### BBA/D-22

24015

# PRINCIPLES OF RETAILING

Paper: 302

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all. Q. No. 1 is compulsory.
All questions carry equal marks.
कुल पाँच प्रश्नों के उत्तर दीजिए । प्रश्न संख्या 1 अनिवार्य

# Compulsory Question ( अनिवार्य प्रश्न )

है । सभी प्रश्नों के अंक समान हैं ।

- 1. Write short notes on the following:
- ) Factors affecting retailing
- (b) Service Retailing
- c) Trading Area Analysis
- What is grid layout in retailing ?
- ) What are impulse sales ?
- (f) What is Bar-code Technology ? निम्नलिखित पर संक्षिप टिप्पणियाँ लिखिए :
- (अ) रिटेल (खुदरा) व्यापार को प्रभावित करने वाले तत्व
- (ब) सेवा रिटेलिंग
- (स) व्यापारिक क्षेत्र का विश्लेषण
- र) रिटेलिंग में ग्रिड-लेआउट से क्या अभिप्राय है ?

(5-29/6) L-24015

P.T.O.

- (इ) आवेग बिक्री क्या है ?
- (फ) बार-कोड प्रौद्योगिकी से क्या अभिप्राय है ?
- Define Retailing. What is changing concept of retailing?
   What are the major factors affecting retailing?
   रिटेल व्यापार की परिभाषा दीजिए । रिटेल व्यापार की बदलती
   अवधारणा क्या है ? रिटेल व्यापार को प्रभावित करने वाले तत्व
   कौनसे हैं ?
- What is organised and unorganised retailing? Differentiate between organised and unorganised retailing. संगठित एवं असंगठित रिटेलिंग क्या है ? संगठित एवं असंगठित रिटेलिंग में अन्तर स्पष्ट कीजिए ।
- Describe the social factors that affect the consumer buying decision process in retailing.
   रिटेलिंग में उपभोक्ता की क्रय निर्णयन प्रक्रिया को प्रभावित करने वाले सामाजिक तत्वों का वर्णन कीजिए ।
- 5. What is the importance of store location in retail business? Explain the factors affecting the choice of the general location.
- रिटेल व्यापार में स्टोर के स्थान का क्या महत्त्व है ? सामान्य स्थान चयन को प्रभावित करने वाले कारकों का वर्णन कीजिए ।
- 6. Explain the importance of Human Resources in a retail organization along with its implications. एक रिटेल संगठन के लिए मानव संसाधन के महत्त्व के साथ-साथ उसके आशय का वर्णन कीजिए।

- 7. What is Merchandise Management? Explain the process of merchandise planning in detail. व्यापार नियोजन क्या है ? व्यापार नियोजन की प्रक्रिया को विस्तार से समझाइए ।
- 8. Describe in detail the advantages and disadvantages of using information technology in a retail business. एक रिटेल व्यापार में सूचना प्रौद्योगिकी के लाभ और हानियों का विस्तार से वर्णन कीजिए।

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- Explain the following:
- Role of MUDRA Bank in Micro Finance
- 9 What are Security issues in use of technology in
- Role of RBI as Issuer of Currency
- Open market operations.

निर्मालीखत की व्याख्या कीजिए :

- (अ) सूक्ष्म वित में मुद्रा बैंक की भूमिका
- बैंकों में प्रौद्योगिकी के उपयोग में सुरक्षा संबंधी मुद्दे क्या
- (H) मुद्रा जारीकर्ता के रूप में आरबी.आई. की भूमिका
- À ओपन मार्केट ऑपरेशंस (खुले बाजार की क्रियाएँ)

Roll No .. Total Pages: 04

#### BBA/D-22

### PRINCIPLES OF BANKING BBA-303

Time: Three Hours] [Maximum Marks: 80

Note: Q. No. 1 is compulsory and each part of its carries का है । शेष प्रश्नों में से प्रत्येक 16 अंक के चार प्रश्न प्रश्न संख्या 1 अनिवार्य है तथा इसका प्रत्येक भाग 2 अंक questions carrying 16 marks each. 2 marks. Attempt four questions out of the remaining

- 1. Write down one pages notes on the following:
- Retail Banking Commercial Banks
- 0 RTGS
- (a) Google pay and UPI
- 0 Priority-sector lending
- Mobile banking
- Spread
- निन्निलिखित पर एक पृष्ठ की टिप्पणियाँ लिखिए : Net Interest Income.
- (अ) वाणिज्यिक बैंक

(ब) खुदरा बैंकिंग

L-24016 (TR)

(5-17/3) L-24016 (TR)

- (स) आरटी.ची.एस.
- द) गूगल पे और यू.पी.आई.
- इ) प्राथमिकता-क्षेत्र उधार फ) मोनाटन अंदिन
- (फ) मोबाइल बैंकिंग
- (ह) शुद्ध ब्याज आय ।
- was opened for private entrepreneurs? Whether the objectives of entry of private sector banks have been achieved? Give comments.

वैंकों के वर्गीकरण की व्याख्या कीजिए । निजी उद्यमियों के लिए वैंकिंग क्षेत्र क्यों खोला गया ? क्या निजी क्षेत्र के बैंकों के प्रवेश के उद्देश्यों को प्राप्त कर लिया गया है ? टिप्पणियौं दीजिए ।

What are objectives of Cooperative banks? Describe sources of financing these banks. Also explain role of rural banks.

सहकारी बैंकों के उद्देश्य क्या हैं ? इन बैंकों के वित्तपोषण के स्रोतों का वर्णन कीजिए । ग्रामीण बैंकों की भूमिका भी समझाइए ।

Describe the organisational set up and important functions of Reserve Bank of India. Also explain the provision of Banking Regulation Act, 1949 regarding Provisioning and CRR.

भारतीय रिजर्व बैंक के संगठनात्मक ढाँचे और महत्त्वपूर्ण कार्यों का वर्णन कीजिए । प्रोविजनिंग और सी.आर.आर के संबंध में बैंकिंग विनियमन अधिनियम, 1949 के प्रावधानों को भी समझाइए ।

- 5. Define the term 'bank customer' as per the Banking Regulation Act. Explain the special relation between a banker and a customer with suitable examples. बैंकिंग विनियमन अधिनियम के अनुसार 'बैंक ग्राहक' शब्द को परिभाषित कीजिए। एक बैंकर और एक ग्राहक के बीच विशेष संबंध को उचित उदाहरण सहित समझाइए।
- 6. (a) Elaborate the role of banks in Financing agriculture, small scale industry and rural sector in general. सामान्य रूप से कृषि, लघु उद्योग और ग्रामीण क्षेत्र के वित्तपोषण में वैंकों की मूमिका को विस्तृत कीजिए।
- (b) Prepare a list of major reforms in India's banking sector since 1991.

  1991 से भारत के बैंकिंग क्षेत्र में प्रमुख सुधारों की एक सूची तैयार कीजिए।
- 7. Describe the following:
- (a) e-Banking
- (b) Role of OTP
- (c) Meaning and functions of 'small banks'
- (d) Tools for evaluating bank performance. নিৰ্দালীব্ৰিব কা বৰ্ণন কীৰিए :
- (अ) ई-बैंकिंग
- (ब) ओ.टी.पी. की भूमिका
- (स) 'छोटे बैंकों' का अर्घ और कार्य
- (र) बैंक के प्रदर्शन के मूल्यांकन के लिए उपकरण ।

(5-17/4) L-24016 (TR)

 (a) Explain the principles of risk management. Describe risk paradigm. जीखिम प्रबंधन के सिद्धांतों की व्याख्या कीजिए । जीखिम

प्रतिमान का वर्णन कीजिए ।

(b) Is there any difference between risk management and risk control? Discuss controls in risk management.

8+8=16
क्या जोखिम प्रबंधन और जोखिम नियंत्रण के बीच कोई अंतर है ? जोखिम प्रबंधन में नियंत्रणों पर चर्चा कीजिए।

Roll No. ..... Total J

Total Pages: 00

BBA/D-22

240

### FUNDAMENTALS OF E-COMMERCE BBA-304

Time: Three Hours]

[Maximum Marks: 80

Note: Attempt Five questions in all. Q. No. 1 is compulsory.
All questions carry equal marks.
कुल पाँच. प्रश्नों के उत्तर दीजिए । प्रश्न संख्या 1 अनिवार्य है । सभी प्रश्नों के अंक समान हैं ।

# Compulsory Question ( अनिवार्य प्रश्न )

- (a) What is meant by e-commerce and e-business?
  List the benefits of e-commerce.
  ई-कॉमर्स और ई-बिजनेस का क्या अर्थ है ? ई-कॉमर्स के लाभों की सूची बनाइए ।
- (b) Write a detailed note on internet service providers.
  What are the most commonly used internet service ?
  इंटरनेट सेवा प्रदाताओं पर एक विस्तृत टिप्पणी लिखिए ।
  सबसे अधिक उपयोग की जाने वाली इंटरनेट सेवा कीन-सी
- (c) Why is cryptography necessary for e-commerce?
  Discuss its security related issues.
  ई-कॉमर्स के लिए क्रिप्टोग्राफी क्यों आवश्यक है ? इसके
  सुरक्षा संबंधी मुद्दों पर चर्चा कीजिए ।

- (a) Briefly explain partially integrated EDII systems. समझाइए आशिक श्र स एकीकृत EDII सिस्टम को संक्षेप में
- (e) based EDI. Draw comparison between traditional EDI and Web पारंपरिक EDI और वेब आधारित EDI के भाजित -बीच तुलना

in

- 3 ई-कॉमर्स में e-commerce? What are the types of intelligent agent available in कितने प्रकार के बुद्धमान एजंट उपलब्ध
- 2. e-commerce? Discuss the implications of e-commerce What can different business operations be performed by ई-कॉमर्स द्वारा कौन-से विधिन व्यवसाय संचालन किए जा सकते for accounting professionals
- हैं ? लेखांकन पेरोवरों के लिए ई-कॉमर्स के निहिताथों पर चर्चा differentiate e-commerce from traditional commerce. Discuss the historic evolution of e-commerce which Explain the role of internet in e-commerce काजिए ।
- ç, ई-कॉमर्स के ऐतिहासिक विकास पर चर्चा कीजिए जो ई-कॉमर्स को भूमिका की व्याख्या कीजिए पारंपरिक कॉमर्स से अलग करता है। ई-कॉमर्स में इंटरनेट की

- 4 फायरवॉल को परिभाषित कीजिए । फायरवॉल प्रौद्योगिकी implementation. Is firewall better than VPN ? Define firewall. Describe the components of firewall technology and the various approaches to और फायरवॉल कार्यान्वयन के विभिन्न दृष्टिकोणों का वर्णन कीजिए। फायरवॉल वी.पी.एन. से बेहतर है ? firewall
- (a) साथ विभिन प्रकार के डोमेन नाम विवाद कैसे उत्पन होता laws. different types of domain name disputes with case How does a domain name dispute arise? Explain काजिए -डोमेन नाम विवादों की व्याख्या orto ? केस कानूनों के
- 9 model. Differentiate between TCP/IP and OSI reference टी.सी.पी./आई.पी. और ओएसआई संदर्भ मॉडल के बीच अंतर भीज्य ।
- 6. को उनके लाभों और चुनौतियों के साथ विस्तृत कीजिए। types of VAN along with its benefits and challenges, 16 Differentiate between EDI and VAN. Elaborate different EDI और VAN में अंतर स्मष्ट कीजिए । VAN के विभिन्न प्रकारों
- .7 evolution of EDI क्या है ? EDI कैसे disadvantages. What is EDI? How does EDI work? Discuss the historic विकास के साथ-साथ इसके EDI along with its advantages and काम करता है ? EDI के लाभ और हानियों पर चर्चा कीजिए ऐतिहासिक

Total Pages: 03

BBA/D-22

#### PRINCIPLES OF PRODUCTION MANAGEMENT BBA-306

Time: Three Hours] [Maximum Marks: 80

Note: Attempt Five questions in all, including the compulsory दीजिए । सभी प्रश्नों के अंक समान हैं । अनिवार्य प्रश्न संख्या 1 सहित कुल पाँच प्रश्नों के उत्तर Q. No. 1. All questions carry equal marks.

# Compulsory Question ( अनिवार्य प्रश्न)

Discuss briefly the following:

TQM LIFO Ordering Cost 21/2 21/2

@ (f) Economic Order Quantity. Warehousing Inspection

(अ) टी.क्यू.एम.

(ब) एल.आई.एफ.ओ.

निम्निलिखित की संक्षेप में चर्चा कीजिए :

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P.T.O.

- (स) आदेश देने की लागत
- (द) निरीक्षण
- (इ) भंडारण
- (फ) आर्थिक आदेश मात्रा ।
- Discuss the characteristics, features, significance and usage of Continuous and Intermittent Production Systems. 16 सतत् और आंतरायिक उत्पादन प्रणालियों की विशेषताओं, लक्षणों महत्व और उपयोग पर चर्चा कीजिए ।
- Clarify the concept of a 'Product' and discuss different types of products.
   'उत्पाद' की अवधारणा को स्पष्ट कीजिए और विभिन्न प्रकार के उत्पादों की चर्चा कीजिए ।
- What do you understand by the term 'Inventory'? Discuss some of the inventory classification techniques. 16 'सूची' शब्द से आप क्या समझते हैं ? सूची वर्गीकरण तकनीकों में से कुछ पर चर्चा कीजिए।
- 5. Throw light on the concepts of Production Planning and Control. Why and how are these done?

  16 उत्पादन योजना एवं नियंत्रण की संकल्पनाओं पर प्रकाश डालिए।
  ये क्यों और कैसे किये जाते हैं?

- purchasing different in case of Private and Government Organisations.

  अतेर सरकारी संगठनों के मामले में खरीद अलग है ?
- 7. What is Statistical Quality Control in production? How and why is it used?

  16
  उत्पादन में सांख्यिकीय गुणवत्ता नियंत्रण क्या है ? इसका उपयोग कैसे और क्यों किया जाता है ?
- Why and how is ISO certification done? ISO प्रमाणीकरण क्यों और कैसे किया जाता है ?

16

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