ARKA JAIN University, Jharkhand

1st Semester End Semester Examination – 2019-20

Subject : Web Programming

Time: 3 Hours

Course: MCA
Full Marks: 70
Pass Marks: 28

- Candidates are required to give their answers in their own words as far as practicable.
- Question Paper is divided into **Three Parts –A, B & C**
- **Part-A** Contains **SIX** questions out of which **FOUR** questions are to be answered. Each has caring five Marks.
- **Part- B** contains **SIX** questions out of which **THREE** questions are to be answered. Each has caring TEN Marks.
- **Part- C** contains **ONE** question to be answered, caring 20 Marks.

PART A

[Short Question Answers (5 x 4 = 20)]

Q.1 Define CSS and explain its syntax and structure?

Q.2 What does URL mean?

Q.3 What are the data types of PHP?

Q.4 What is associative array in PHP ?

Q.5 Write example showing MARQUEE tag?

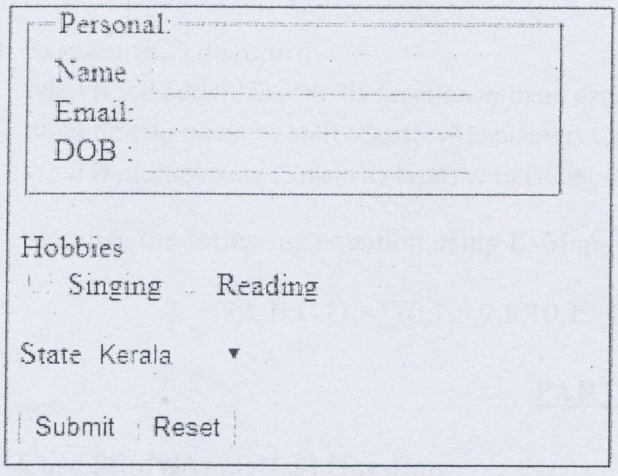
Q.6Write JavaScript program to display numbers from 1 to 10?

PART B

[Long Question Answers (10 x 3 =30)]

Q.1. What is HTTP ? What are HTTP request and response ? Give the limitations Of HTTP.

Q.2. Design the following.



Q.3. Explain GET & POST method.

Q.4 Explain the use of Break and Jump statement in JavaScript.

Q.5 Explain Event handlers in JavaScript with an example

Q.6 Explain difference between HTML & JavaScript with examples from each.

PART C

[Compulsory Question Answers (20 x 1 =20)]

Q.1

a) Explain types of CSS with proper examples from each.

ARKA JAIN University, Jharkhand

I st Semester End Semester Examination – 2019-20

Subject: DIGITAL LOGIC

Course: MCA
Full Marks: 70
Pass Marks: 28

Time: 3 Hours

- Candidates are required to give their answers in their own words as far as practicable.
- Question Paper is divided into **Three Parts –A, B & C**
- **Part C** is compulsory.
- **Part- A** contains **SIX** questions out of which **FOUR** questions are to be answered.
- **Part- B** contains **FIVE** questions out of which **THREE** questions are to be answered.

PART A

Answer any four **(5x4 =20)**

1. What do you mean by Sequential Circuit? How is it different from Combinational Circuit? Design OR & AND gate using NAND gate.
2. State De Morgan's Theorem. Explain with suitable example.
3. What is Encoder? Explain its applications
4. Add following using 2's compliment

   i)-22 and 55 ii)-43 and -34

5. Convert the following

   i)$(3C7)_{16} = (\ )_{10}$ ii) $(137)_8 = (\ )_2$

PART B

Answer any Three: **(3x10 =30)**

1) Explain BCD decoder.
2) What is full adder? Explain its function with an example.
3) What do you mean by shift registers? Explain its types with their application.
4) What is multiplexer? Explain its types with circuit diagram and truth table.
5) Simplify the following equation using K-Map

   i. $F(A,B,C,D)=\sum(0,2,5,7,8,10,13,15)$

PART C

Case Study/Analytical Question **(1x20=20)**

12 What do you mean by Flip Flop? Explain its different types with their circuit diagram and truth table and its applications.

ARKA JAIN University, Jharkhand

1st Semester End Semester Examination – 2019-20

Subject: Programming in C

Time: 3 Hours

Course: MCA
Full Marks: 70
Pass Marks: 28

- Candidates are required to give their answers in their own words as far as practicable.
- Question Paper is divided into **Three Parts –A,B& C**
- **Part-A** is compulsory.
- **Part- B** contains **SIX** questions out of which **FOUR** questions are to be answered.
- **Part- C** contains **SIX** questions out of which **THREE** questions are to be answered.

PART A

Q1.)All questions are compulsory:-

A] Objective Answer Type (10x1=10)

i) Input/output function prototypes and macros are defined in which header file?

a) Conio.h
b) Stdio.h
c) Stdlib.h
d) dos.h

ii) C programs are converted into machine language with the help of

a) An editor
b) A compiler
c) An operating system
d) None of the above

iii) Which of the following is/are syntactically correct?

a) for ( ) ;
b) f or (;) ;
c) for (,);
d) for (; ;) ;

iv) Which of the following comments about union are true?

a) Union is a structure whose members share the same storage area
b) Size allocated for union is the size of its member needing the maximum storage
c) Only one of the members of union can be assigned a value at a particular time
d) All of these

v) Which of the following 'C' type is not a primitive data structure?

a) into

b) Float
c) Char
d) None of these

vi) The variables which can be accessed by all modules in a program, are called

a) local variables
b) internal variables
c) external variable
d) Global variables

vii)A function that uses variable types is called

a) Overloaded
b) Template Function
c) Variable function
d) Virtual function

viii) Standard ANSI C recognizes ___ no of Keywords

a) 30
b) 32
c) 24
d) 36

ix) Prototype of a function means _____

a) Name of Function
b) Output of Function
c) Declaration of Function
d) Input of a Function

x) If you pass an array as an argument to a function , what actually gets passed?

a) Value of elements in array
b) Address of the last element of array
c) First element of array
d) Base address of the array

B] Short Answer Type **(5x2=10)**

i) What is identifier?
ii) What is jumping statement in c?
iii) Why we use Print function and Scan function in c?
iv) What do you mean by typecasting?
v) What is storage class in c?

PART B

Q2.) Answer any four: **(4x5=20)**

i) What do you mean by data types? Explain the different types of datatype in C.
ii) What is memory allocation in c ? Explain about the dynamic memory allocation.
iii) Write a program in c to perform the swapping of 2 numbers without using the third variable.
iv) Explain about the standard library Input/output function.

PART C

Answer any Three: **(3x10=30)**

Q3.) What is loop? Explain the different types of looping statement with the help of program.
Q4.) What is Function in c? Explain about the function definition, function declaration and function call with the help of program.

Q5.) What do you mean by memory formatting? Explain about the scan() and sprint() function with the help of program.

Q6.) Write a program of Fibonacci series in c without recursion.
Q7.) What is Standard library I/O function and character I/O function in c.
Q8.) What do you mean by Pointers in C ? Write a program in c to demonstrate the working of pointer.

ARKA JAIN University, Jharkhand

1st Semester Final Examination – 2018-19

Subject : statistics and probability | **Course: MCA**

Time : 3 Hours | **Full Marks:** 70, **Pass Marks:** 28

- Candidates are required to give their answers in their own words as far as practicable.
- Question Paper is divided into **Three Parts –A, B & C**
- **Part-A** is compulsory.
- **Part- B** contains **SIX** questions out of which **FOUR** questions are to be answered.
- **Part- C** contains **SIX** questions out of which **THREE** questions are to be answered.
- **Part-D** is compulsory

PART A

Q1.) All questions are compulsory:-

A] Objective Answer Type **(5x1=5)**

i) which of the formulae is correct for sample mean in an individual series

a) $\bar{x}=\frac{\Sigma x}{N}$

b) $\bar{x}=A+\frac{\Sigma fd}{N}$

c) $\bar{x}=\frac{\Sigma fx}{N}$

d) None of these

ii) c_r^n =?

a) $\frac{n!}{(n-r)!}$

b) n!

c)) $\frac{n!}{r!(n-r)!}$

d) None of these

iii) One of the methods to find out mode is

a) Mode = 3median+2mean
b) Mode = 3median-2mean
c) Mode = 2median+3mean
d) None of these

iv standard deviation is calculated on the basis of

a) mean
b) median
c) mode
d) None of these) standard deviation is calculated on the basis of

v)The limit of Karl Pearson's correlation coefficient is

a) ± 1
b) ± 2
c) ± 3
d) None of these

B] Short Answer Type (5x2=1

a. What is meant by correlation?
b. Define addition theorem of probability?
c. Let A and B be the two events such that P(A)=1/2 ,P(B)=1/3 and P(A∩ B) find P($\bar{A} \cap \bar{B}$)?
d. What do you mean by frequency distribution?
e. Define probability distribution?

PART B

Q2.) Answer any four: (4x5=20)

a. A card is drawn at random from a well shuffled deck of 52 cards. Find the probability of its being a heart or a ace?
b. From the following data compute arithmetic mean

a. Marks:	20-25	25-30	30-35	35-40	40-45	45-50	50-55
c. No of students:	8	10	12	20	11	4	5

d. Compute the coefficient of quartile deviation from the following data

a. Marks:	10	20	30	40	50	60
e. No of students:	**4**	**7**	**15**	**8**	**7**	**2**

f. iv) find the median from the distribution of marks obtained in economics

a. Marks:-	30-35	25-30	20-25	15-20	10-15	5-10	0-5
g. No of persons:	4	8	12	16	10	6	4

h. The probability of bomb hitting a target is 1/5. Two bombs are enough to destroy a bridge. If six
i. Bombs are aimed at a bridge , find the probability that that the is destroyed.

PART C

Answer any Three: (3x10=30)

Q3.) Calculate the Karl Pearson's coefficient of skewness for the following data:

size:	10	11	12	13	14	15
frequency:	2	4	10	8	5	1

Q4.) Calculate the coefficient of correlation between birth rate and death rate from the following data:

Birth rate :	24	26	32	33	35	30
Death rate:	15	20	22	24	27	24

Q5.) From the following data calculate (i) two regression coefficient (ii) coefficient of correlation (iii) Regression equations:

Age of Husbands:	18	19	20	21	22	23	24	25	26	27
Age of wives:	14	16	16	18	18	19	20	20	21	21

Q6.) Find regression coefficient on the basis of following data:
$\sum X$=50, X=5, $\sum Y$=60 Y=6, $\sum XY$=350, variance of X=4 Variance of Y=9

Q7.) The probability density function of a variate X is

X:	0	1	2	3	4	5	6
P(X):	k	3k	5k	7k	9k	11k	13k

Find P(X<4),P(X≥ 5) ,P(3< $X \leq 6$)
What will be the minimum value of k so that P(X≤ 2)

Q8.) An insurance company insured 2000 scooter drivers, 4000 car drivers and 6000 truck drivers. The probability of an accident involving a scooter driver, car driver and a truck drivers is 0.01,0.03 And 0.15 respectively .one of the insured drivers meets with an accident. What is the probability? That he is a car driver?

PART D

Q9.) If a fair coin is tossed 10 times, find the probability of (5x1=5)

(i) Exactly six heads
(ii) At least six heads
(iii) At most six heads

ARKA JAIN University, Jharkhand

1st Semester End Semester Examination – 2019-20

Subject: Professional Communication

Course: MCA
Full Marks: 70
Pass Marks: 28

Time: 3 Hour

- Candidates are required to give their answers in their own words as far as practicable.
- Question Paper is divided into **Three Parts –A, B & C**
- **Part-A** is compulsory.
- **Part- B** contains **SIX** questions out of which **FOUR** questions are to be answered.
- **Part- C** contains **SIX** questions out of which **THREE** questions are to be answered.

PART A

Q.1) Multiple Choice Questions : **(10*1=10)**

1. Communication is a _____ process.
   A. One way
   B. Continuous
   C. Complex
   D. None of these
2. Persuasive command means _____ people.
   A. Convincing
   B. Influencing
   C. Commanding
   D. Interacting
3. Which of the following does not come under noise?
   A. Faulty connection
   B. Faulty encoding
   C. Wrong body language
   D. None of these
4. Flow of information from downward to upper management is _____ communication.
   A. Downward
   B. Upward
   C. Horizontal
   D. adjacent
5. Most of the informal communication start as _____ but end as _____.
   A. single strand.....cluster
   B. single strand ..... gossip
   C. gossip.....cluster
   D. single strand.....probability
6. Curriculum Vitae is derived from a _____ word.
   A. Latin
   B. German
   C. Spanish
   D. None of these
7. Inside address refers to _____.
   A. Sender's address
   B. Receiver's address
   C. Mail marked to CC
   D. None of these
8. Which of the following should not be done in Group discussion?
   A. introducing the topic

B. Concluding the discussion
C. Speaking softly
D. Listening to other members

9. Resume should not include _____ unless asked.
   A. Hobbies
   B. Marital status
   C. Languages known
   D. References
10. A "No Parking " sign comes under _____.
   A. Audio visual
   B. Visual
   C. Audio
   D. None of these

Q. 2) Answer in short **(5*2=10)**

A. Define group discussion.
B. What is haptics?
C. Why is brain storming done?
D. State any 5 modes of body language ?
E. Define business communication.

PART B

(4*5=20)

Q.2) Answer any 4

1. Write a report on "Frequently fluctuating power supply in Gurgaon"
2. What are the Do's & don'ts of a group discussion.
3. Write the mentioned passage in précis format :

   With a view to reach the targeted set of music lovers, surpass its presence in the online music service world as compared to other contemporaries and somehow lure them to download Gaana's mobile app either through Google Play Store or the Apple App Store could be accomplished through the mobile app ads, that would successfully redirect the music app downloaders to the app install page. Thus, the ultimate motive of the campaign could be resolved.

   Besides this, Gaana also banked upon a profound social media marketing tool –Power Editor to tactfully manage its large scale campaign, observe the results and accordingly plan its strategic moves.

   Undoubtedly, Facebook served as the right social media platform to reach to the music lovers as it helped Gaana to fetch more app downloads as compared to its contemporaries and accomplish higher engagement level with the music lovers.
4. Write a resignation letter to your head stating him the reason.
5. State the process of communication.
6. What are the various mediums of communication?

PART C

(3*10=30)

Answer any 3

Q.3) Write a recommendation letter for one of your team member who has recently changed his/her job.

Q.4) what are the different barriers of communication?

Q.5) Define written communication. Also state the advantages & disadvantages.

Q.6) Write a newspaper report on "A newly inaugurated hospital in your area"

Q.7) State the different types of non-verbal communication?

Q.8) Write a resume for the following:

Bank manager – Exp. 10+ years.

Qualification – MBA in banking & Finance

ARKA JAIN University, Jharkhand

1st Semester End Semester Examination – 2019-20

Subject: Introduction to Management Functions **Course:** M.C.A.

Time : 3 Hours **Full Marks:** 70
Pass Marks: 28

- Candidates are required to give their answers in their own words as far as practicable.
- Question Paper is divided into **Three Parts –A, B & C**
- **Part-A-** Contains Six questions out of which Four Questions are to be answered
- **Part- B-** contains Five Questions out of which Three Questions are to be answered
- **Part -C** is compulsory.

PART A

Q.1) Answer *any four* questions in brief: - **[5 x 4 = 20]**

1. What is Recruitment? Critically analyse Internal sources of recruitment.
2. What are the important tools for Financial statement Analysis? List them.
3. Write a short note on Employee movements.
4. What are Marketing Mix? Name them.
5. What are the Objectives of Pricing and why it is important for a Marketer?

PART B

Q2) Answer *any three* questions in detail **[10 x 3 = 30]**

1. What is Selection? Explain Selection Process in detail.
2. What are the 5 stages of Strategy Development? – Explain.
3. Differentiate between Training and Development. Critically analyse off-the job training methods.
4. What are the steps involved in Personal Selling?
5. Write note on methods for estimating Working Capital Measurement.

PART C

Q.3) Case Study **(20x1=20)**

You are appointed as a Marketing Manager for a Pen Manufacturing company. Develop a Marketing Mix plan for the same.