(i)	Printed	Pages:	3
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Roll No.	

: 7 Questions (ii)

Exam. Code : 0

Sub. Code : 0 7 0 2

Bachelor of Computer Applications Ist Sem.

(2122)
ENGLISH

# Paper : BCA-16-101

# Time Allowed : Three Hours]

# [Maximum Marks : 65

Note :- Attempt ALL questions. SECTION-A

Justify the title of the story, "The Tell Tale Heart". 1.

OR

Draw a character sketch of Hughie Erskine. 10

Describe the influences that shaped Jawahar Lal Nehru's 2. personality.

#### OR

Write a note on the theme of the essay, John Fitzgerald 10 Kennedy.

3.

Lord ullin's Daughter

### OR

- 5 On the Receipt of Mother's Picture.

0911/PR-20101(Re)

1

[Turn over

- (b) Answer any two of the following questions :---
  - (i) What according to Balthazar is the attitude of lovers towards young ladies ?
  - (ii) What was the state of Nature at the time of Christ's birth ?
  - (iii) How does William Wordsworth describe Lucy ?

5

5

(c) Explain the following passage with reference to the context :---

A slumber did my spirit seal

I had no human fears;

She seemed a thing that could not feel,

The touch of earthly years.

#### OR

When I consider life, 'tis all a cheat;Yet, fooled with hope, men favour the deceit;Trust on, and think tomorrow will repay;Tomorrow's falser than the former day.

# SECTION-B

Change the form of any of the five words as instructed and use the changed form in sentence of your own :—
Haste, Innocence (Adjective)
Futile, Dead (Noun)
Growth, Definition (Verb)
Happy, Slow (Adverb) 10
0911/PR-20101(Re) 2

 Use any five of the following in sentences of your own :— Shriek, a capital story, to be stone dead, Mandate, proponent, Egotism, Repartee, Erroneous.

6. Translate the following passage into English :— एक सामाजिक प्राणी होने के नाते मनुष्य को अपने कर्त्तव्यों के प्रति भी उतना ही जागरूक होना चाहिए जितना वह अपने अधिकारों को लेकर होता है। कर्त्तव्य और अधिकार एक ही सिक्के दो पहलू है यदि हमें अपने अधिकारों के लिए भी संघर्ष करना पड़ेगा। उदाहरण के तौर पर एक जिम्मेदार नागरिक की तरह यदि हम कचरा कूड़ेदान में ही डालेंगे तो हम एक स्वच्छ वातावरण का आनन्द उठा सकते है।

## OR

For Foreign Students only :---

Paraphrase the following passage in your own words :

Hold fast to dreams

For if dreams die

Life is a broken-winged bird

That cannot fly.

7.

Write a letter to the editor of a newspaper expressing your views on harmful effects of global warming.

#### OR

Write an application for the post of a Computer Teacher in an Institute.

0911/PR-20101(Re)

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(i)	Pr	inted Pages : 4	Roll No
<b>(ii)</b>	Qu	estions :9	Sub. Code :       0       9       1       2         Fxam       Code :       0       0       2       7
			Exam. Code : 0 0 2 7
	B	achelor of Comp	tter Applications 1 <sup>st</sup> Semester
	211		(2122)
F	UNE		MATHEMATICAL STATISTICS
		Pape	r : BCA-16-102
Tin	ne Al	llowed : Three H	ours] [Maximum Marks : 65
Not	e :	-Attempt any <b>ON</b> Section E is con	E question from each Section.
		S	ECTION—A
1.	(a)		How do you think that the knowledge ssential in decision making ? Give 6
	(b)	the mean age of	a group of 50 students is 15 years and mother group of 70 students is 20 yrs. ge of all the 120 students together. 7
2.	(a)		of data and its objectives. Also write lisadvantages of tabulation. 6

(b) Explain the use of harmonic mean as an average. Given the following frequency distribution of first year students of a particular college, calculate the harmonic mean.

Age	13	14	15	16	17	
No. of students	2	5	13	7	3	

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## SECTION-B

 (a) Calculate the value of x and y from the following data. Given the median of the distribution is 28.5 and total students are 60.

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of Students	5	x	20	15	У	5

6

7

7

.6

(b) Calculate Standard deviation and coefficient of variation of the following data :

10	12	14	16	18	20	22	
4	6	10	15	9	4	2	
	10 4	10 12 4 6	1012144610	10121416461015	10121416184610159	10         12         14         16         18         20           4         6         10         15         9         4	10     12     14     16     18     20     22       4     6     10     15     9     4     2

(a) Define various absolute measures of dispersion. 6

(b) Find out median and mode for the following data :

Classes	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	4	8	10	12	10	4	2

## SECTION-C

 (a) Define Concurrent Deviation method of correlation. Calculate coefficient of concurrent deviation for the following data :

Price	25	28	30	23	35	38	39	42
Demand	35	34	35	30	29	38	26	.23

2

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4.

(b) Following are the marks obtained by eight students in two subjects as given below :

Students	Marks				
	Computer	Statistics			
1	46	55			
2	65	54			
3	86	77			
4	69	75			
5	75	66			
6	48	55			
7.	70	60			
8	68	52			

Calculate the Spearman's rank correlation coefficients.

- (a) What is meant by coefficient of correlation between two variables ? Also distinguish between positive correlation and negative correlation.
- (b) Calculate Karl Pearson's coefficient of correlation between X and Y :

X	7	4	6	9	3	8
Y	8	5	4	8	3	6

### SECTION-D

7. (a) What do you mean by regression ? Why are there two regression lines in a bivariate series ? Can there be one regression line ?

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- (b) The two regression equations, Regression equation of X on Y is 10x 2y = 4 and regression equation of Y on X is 2y 5x = 8, Find x̄, ȳ and coefficient of correlation.
- 8. For the following data :
  - (i) Calculate two regression equations
  - (ii) Estimate the value of x when y = 30
  - (iii) Determine the correlation coefficient using regression coefficients.

X	10	14	16	24	26
Y	5	6	7	9	13

13

# SECTION-E

9. Answer the following questions :

(i)	Define probable error.	2
(ii)	Mention any two limitations of regression analysis.	2
	Define variance.	2
(iv)	Define the term frequency density.	2
(v)	Write merits and demerits of range.	2
(vi)	If the sum and difference of upper and lower quartiare 55 and 11 respectively, find the coefficient of quart deviation.	les tile 3

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Exam. Code :	0	0	2

Bachelor of Computer Applications 1<sup>st</sup> Semester (2122)

COMPUTER FUNDAMENTALS AND COMPUTING SOFTWARE

Paper : BCA-16-103

Time Allowed : Three Hours] [Maximum Marks : 65

Note :— Attempt FIVE questions in all, including Question No. IX (Unit-V) which is compulsory and selecting ONE question each from Units I-IV.

### UNIT-I

- I. (a) Describe the classification of computers based on Size.
  - (b) Explain the different types of Printers.

6,7

7

### II: (a) Write notes on :

- (i) Types of Software
- (ii) Generation of Languages.

# (b) Describe the following devices :

- (i) Trackball
- (ii) Magnetic tape
- (iii) Flash Drive.

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6,7

	UNIT—II	
III. (a) What	t is an Operating System ? Explain its functi	ons.
(b) Expl	ain the following DOS Commands. Give e	example to
(i)	PATH	
(ii) (iii)	ATTRIB DELTREE.	6,7
IV. (a) Des	scribe the Anatomy of Windows.	milt said
(b) Wh Ru	nat is a Batch File ? How is a batch file on a search file on a search file on a search file of a search of the se	created and 6,7
in the test of the	UNIT—III	
Envelor	how the Mail Merge feature is used to creat pes.	
VI. Explain	n the following features of Word Processing	Package:
	sing Styles	
(b) Fo	ormatting Paragraphs	5,5,3
(c) A	utotext.	
	UNIT—IV	0
VII. (a) V b	What is a Cell Address ? What is th between Absolute and Relative Cell Addr	ess ? Explain
V 6.2	with examples.	

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The second s		
(b)	Describe the following features of a Spreadsheets :	
	(i) Sorting Records	
	(ii) Deactivating Automatic Changes	
	(iii) Validating Cell Contents.	6,7
VIII. (a)	Explain the basics of creating a presentation.	L.
(b)	Explain how are Macros Created, Recorded and I	Run in
	Spreadsheet.	6,7
	UNIT—V (Compulsory Question)	
IX. (a)	Distinguish between RAM and ROM.	.2
(b)	Draw and label Block Diagram of a Computer.	2
(c)	Distinguish between Copy and Move Commands.	2
(d)	What is the difference between Save and Save As	? 2
(e)	What is the use of Recycle Bin ?	2
(f)	Explain the use of Fill tool used in Spreadsheets.	3

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(i)	Printed	Pages :	2

Questions

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Bachelor of Computer Applications 1<sup>st</sup> Semester

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### (2122)

### PROBLEM SOLVING THROUGH C

### Paper : BCA-16-104

### Time Allowed : Three Hours] [Maximum Marks : 65

**Note :—** Candidate is required to attempt **FIVE** questions in all, including Question No. 9 which is compulsory and attempt remaining **FOUR** questions by selecting **ONE** question from each Section.

### SECTION-A

 Compare merits and limitations of data flow diagram, decision table, pseudo code and flow charts as tools of programming process.
 13

 Discuss various operators available in C language along with hierarchy of operations. What is the role of identifiers and keywords in developing C programs ?

### SECTION-B

- 3. Explain various loop control structures available in C language along with illustrative examples of your own choice. 13
- Explain the calling and definition of function in C language. Compare various methods of parameter passing to the function with example.
   13

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# SECTION-C

5.	How is a two dimensional array initialized ? Write a C p	rogram
	to compute multiplication of two matrices of order $4 \times 4$ .	13
6.	Write a note on following :	
	Array of pointers	
	Dynamic memory allocation functions.	13
	SECTION—D	
7.	How are string variables declared and initialized in C lan	guage?
	Explain the working of following :	
	strlen(), strcat(), strcmp(), strcpy().	13
8.	Differentiate between structures and unions by taking samp	ole code
	of your own choice. Write a C program illustrating ba	sic I/O
	operation on C files.	13
	(Compulsory Question)	
9.	(a) Distinguish between testing and debugging.	3
	(b) Define the role of goto statement.	2
	(c) What is the relevance of switch statement ?	2
	(d) Give an example of arrays of characters.	. 2
	(e) Write about array of pointers.	2
•	(f) What are nested structures ?	2

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