

0678686

37213/B130/32213/41202

Reg. No.

--	--	--	--	--	--	--	--

II Semester B.B.A.3/B.C.A.3/B.Sc.(comp sci) Degree Examination September - 2020

**Kannada (Basic)**  
**ಸಾಹಿತ್ಯ ಸಿಂಚನ - 2**  
**(Regular/Repeater)**

Time : 3 Hours

Maximum Marks : 80

**Instructions to Candidates:**

ಭಾಷೆ ಮತ್ತು ಬರಹದ ಶುದ್ಧಿಗೆ ಗಮನ ಕೊಡಲಾಗುವುದು.

- I) ಗಂಡ ಹೆಂಡತಿಯರ ಅನ್ಯೋನ್ಯತೆ ಸುಖ-ದುಃಖಗಳನ್ನು ಕಣ್ಣಿಗೆ ಕಟ್ಟುವಂತೆ 'ಸತಿ-ಪತಿ' ಹಾಡಿನಲ್ಲಿ ಚಿತ್ರಿಸಲಾಗಿದೆ ವಿವರಿಸಿರಿ. (15)

(ಅಥವಾ)

ಕೃಷ್ಣ ಮಯೂರ ಧ್ವಜನಲ್ಲಿಗೆ ದಾನ ಕೇಳಲು ಮಾರು ವೇಷದಲ್ಲಿ ಬಂದುದರ ಔಚಿತ್ಯವನ್ನು ವಿವರಿಸಿರಿ.

- II) ಸಾಮಾಜಿಕ ಬದಲಾವಣೆಯಲ್ಲಿ ಸಾಹಿತ್ಯದ ಪಾತ್ರವನ್ನು ವಿವರಿಸಿರಿ. (15)

(ಅಥವಾ)

ಪ್ರೀತಿ ಬದುಕಿನ ಪ್ರಗತಿಯಾದರೆ, ದ್ವೇಷ ಬದುಕಿನ ಅಧೋಗತಿ 'ಪ್ರೀತಿಯ ಮಿಮಾಂಸೆ'ಯಿಂದ ವಿವರಿಸಿರಿ.

- III) ಬೇಕಾದ ನಾಲ್ಕಕ್ಕೆ ಟಿಪ್ಪಣಿಗಳನ್ನು ಬರೆಯಿರಿ. (4×5=20)

- 1) ಮೋಳಿಗೆ ಮಾರಯ್ಯನ ದಿನಚರಿ
- 2) ಮರುಳು ಸಿದ್ಧರಿಗೆ ಕಿನ್ನರಿಯಾದ ಮಾಯೆ
- 3) ಜಿ.ಎಸ್. ಶಿವರುದ್ರಪ್ಪ
- 4) ಕ್ಯೂಟೊ ಒಡಂಬಡಿಕೆ
- 5) ಚಾರ್ಲ್ಸ್ ಕೊರಿಯಾ ಚಿಂತನೆಗಳು
- 6) 'ಒಂದು ಹೆಣದ ಸುತ್ತ' ಕತೆಯ ಕೆಂಚಪ್ಪ

- IV) ಬೇಕಾದ ಮೂರಕ್ಕೆ ಸಂದರ್ಭದೊಡನೆ ಸ್ಪಷ್ಟೀಕರಿಸಿರಿ. (3×5=15)

- 1) 'ಆಹಾ! ನೀರೇ! ನಿನ್ನ ಸೌಭಾಗ್ಯವೇ ಸೌಭಾಗ್ಯ!'
- 2) 'ಮೊದಲ ಭಟ್ಟಿಗೆ ಬಂದ ಮಳ್ಳೆಣ್ಣು ಮಾಡಿದಾಂಗ'

[P.T.O.]



- 3) 'ನಿನ್ನ ಹಾಡೊಳಗದೆಷ್ಟು ಪ್ರೀತಿ ಕಡಲಿನ ಕಲರವವೇ'
- 4) ಸರ್, ಜಾಗಲಭ್ಯವಿದ್ದರೆ 24 ಘಂಟೆಯೊಳಗೆ ರೆಸ್ಪೋಂಟ ಪ್ರಾರಂಭಿಸಬಹುದು
- 5) 'ಇಂದಲ್ಲ ನಾಳೆ ಅದು ತಾನಾಗೇ ಬೀಳುತ್ತದೆ'.

V) ಒಂದೇ ವಾಕ್ಯದಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

(15×1=15)

- 1) ಅಡಗೀಯ ಮನಿಯಾಗ ಯಾರ ಸುಳಿವಿಲ್ಲ ?
- 2) ಮಯೂರ ಧ್ವಜನ ಬಳಿ ಬಂದು ಅವನ ದೇಹದ ಅರ್ಧ ಭಾಗ ದಾನ ಕೇಳಿದವರು ಯಾರು ?
- 3) ಮೋಳಿಗೆ ಮಾರಯ್ಯನ ವೃತ್ತಿ ಯಾವುದು ?
- 4) 'ವಿನಾಯಕ' ಕಾವ್ಯ ನಾಮ ಯಾರದು ?
- 5) ಮಾಯೆಯನ್ನು ಕಿನ್ನರಿಯಾಗಿ ನುಡಿಸಿದವರು ಯಾರು ?
- 6) ಯಾವ ಹಾಡ ಹಾಡಲಿ ಎಂದವರಾರು ?
- 7) ಮೂಡ್ಡಾಕೂಡು ಚಿನ್ನಸ್ವಾಮಿ ಎಲ್ಲಿಯವರು ?
- 8) ಅವ್ವನ ನೆನಪಿನ ಚಿತ್ರಗಳು ಯಾವ ರೂಪ ಪಡೆದಿವೆ ?
- 9) ಬಿ.ಎಂ. ಇದಿನಬ್ಬ ಎಲ್ಲಿಯವರು ?
- 10) ಹಾ.ಮಾ.ನಾ. ಅವರ ಪೂರ್ಣ ಹೆಸರೇನು ?
- 11) ಜೀವಿಗಳ ಹೆಬ್ಬಯಕೆಗಳಾವವು ?
- 12) ಗ್ಲೋಬಲ್ ವರ್ಮಿಂಗ ಎಂದರೇನು ?
- 13) ಸಾಂತಾಕ್ರೂಜ್ ಹತ್ತಿರ ಮಾರಾಟಕ್ಕಿದ್ದ ಹೊಟೆಲ ಯಾವುದು ?
- 14) ಚಾರ್ಲ್ಸ್ ಕೊರಿಯಾ ಯಾರು ?
- 15) ಕೆಂಚಪ್ಪನ ಹೆಣ ಎಲ್ಲಿ ಮಲಗಿತ್ತು ?

0653666

41221/B210

Reg. No.

--	--	--	--	--	--	--	--

**II Semester B.C.A. UG Examination, September - 2020**

**FINANCIAL MANAGEMENT**

**(Regular)**

**Time : 3 Hours**

**Maximum Marks : 80**

**Instructions to Candidates:**

- 1) *Attempt all sections according to Internal choice.*
- 2) *Simple calculators are allowed.*

**Section - A**

1. Answer the following :

**(10×2=20)**

- a) What is management accounting?
- b) What is ratio?
- c) What is dividend?
- d) Mention two fixed Assets.
- e) What do you mean by cash?
- f) Expand JCMA.
- g) What is factory cost?
- h) What is prime cost?
- i) What is contribution?
- j) What is P/V ratio?

**Section - B**

Answer any four from the following, each question carries 5 marks.

**(4×5=20)**

2. What are the merits of Ratio Analysis?
3. What are the current Assets?
4. What are the functions of cost accounting?
5. Pulkeshi Co issued 5000 equity shares of Rs.10 each payable as under  
Rs. 2/- on application.  
Rs. 3/- on Allotment  
Rs. 5/- On first and final call  
All the shares issued and money received pass the journal entry.

**P.T.O.**



6. From the following information of Aihole co calculate cash flow from operation activities on 31-3-2018.

Cash sales	50000
Received from Debtors	150000
Commission Received	20000
Payment to creditors	80000
Cash purchases	10000
Salary due but not paid	5000
Cash payment :	
i) Salary to staff	2000
ii) Office Rent	1000
iii) Repairs	3000
Proceeds from Drought Relief final settlement (Amount Received)	6000 4000
Taxes paid	7000

### Section - C

Answer any **four** from the following questions. Each question carries **10** marks. (4×10=40)

7. From the following particulars of Ram Co prepare cost sheet as on 31st March 2018.

Direct Materials	50000
Direct Wages	60000
Indirect wages	10000
Factory Rent	4000
Salary to staff	12000
Factory Insurance	4000
Depreciation on machinery	1000
Depreciation on Furniture	500
Managing Director fees	10000
Travelling Exp.	5000
Carriage outward	4000
Advertisement	6000
Bad Debt	2000
Free sample	500
Sales	200000

What is % of profit on sales.



## 8. The Balance sheet of Banshankari Co as on 31-3-2019

Liabilities	Amount	Assets	Amount
equity share capital	200000	Building	250000
Reserve and Surplus	150000	Furniture	100000
10% Debenture	160000	Stock of goods	170000
Bills Payable	30000	Customers	70000
Suppliers	60000	Cash	10000
	<u>600000</u>		<u>600000</u>

Calculate -

Current Ratio

Quick Ratio

Debt Equity Ratio.

Proprietary Ratio.

## 9. From the following Balance Sheet of Mallikarjun Co Prepare Funds from operation schedule changes in working capital fund flow statement :

Liabilities	01-04-2018	31-03-2019	Assets	01-04-2018	31-03-2019
Share capital	200000	240000	Land	110800	226400
Share premium	-	20000	Plant	71200	102600
General Reserve	12000	22000	Furniture	4800	5000
P and L A/C	15000	41400	Stock	73000	76000
8% Debenture	-	52000	Sundry Debtors	64200	76000
Provision for income tax	19600	21800	Cash and Bank	9600	8000
Sundry creditors	67000	72800			
Proposed Dividend	20000	24000			
<b>Total</b>	<u>333600</u>	<u>494000</u>		<u>333600</u>	<u>494000</u>

During the year Depreciation on plant 24000 and on Furniture 800/-

## 10. Two business Ram Ltd and Shiva Ltd sell the same type of product in the same market. The budget profit and loss A/C for the coming year account as follows.

Particulars	Ram Ltd	Shiva Ltd
Sales	150000	150000
Variable cost 120000		100000
Fixed cost 15000	135000	35000
Budget Net profit	<u>15000</u>	<u>15000</u>

You are required to

- Calculate Break even point for each business.
- Calculate the sales volume at which each business will earn profit of Rs. 5000/-
- State which business is likely to earn greater profit.



11. The following is the trial balance of Kasi Vishveshwara and Co as on 31-03-2018 prepare final account.

Sr.No.	Name of A/c	Debit	Credit
1.	Share capital (5000 share of 10/- each)	-	50000
2.	Opening stock	9000	-
3.	Wages	8000	-
4.	Purchases/sales	25000	40000
5.	Freight	2000	-
6.	Salary	2000	-
7.	Rent	1000	-
8.	Discount	800	600
9.	Sundry Expenses	700	-
10.	Bad Debts	200	-
11.	Profit and Loss A/C	-	4400
12.	Debtors/Creditors	10000	4800
13.	Building	8500	-
14.	Machinery	5000	-
15.	Furniture	1500	-
16.	Investment	15000	-
17.	General Reserve	-	2400
18.	Loan to Employee	400	-
19.	Cash	11100	-
20.	6% Debenture	-	10000
21.	Bank Balance	2000	-
22.	Good Will	10000	-
	<b>Total</b>	<u>112200</u>	<u>112200</u>

**Adjustment :**

1. Stock on 31st march 2018 Rs. 20000
2. Transfer to General Reserve 2000
3. Make reserve for doubtful debt @5% on Debtors.
4. Outstanding Interest on Debenture for one year.
5. Rent paid in Adv. 200/-
6. Director proposed Dividend @10% on capital.

0025886

41223/B230

Reg. No.

--	--	--	--	--	--	--	--	--	--

II Semester BCA UG Examination, September -2020

DATA STRUCTURES USING C

(Regular)

Time : 3 Hours

Maximum Marks : 80

*Instructions to Candidates :*

1. Answer All Sections.
2. Draw neat diagrams wherever necessary.
3. Write question number correctly.

**SECTION - A**

Answer ALL questions:

(10×2=20)

1. a) Define data structure, List out its types.  
b) Define pointer? How to initialize pointers.  
c) Explain fprintf ( ), fscanf ( ), fopen ( ).  
d) List out primitive and non-primitive data structure.  
e) Define linear search.  
f) What is recursion? Give example.  
g) Define stack? List out the operations of stack.  
h) Convert the given expression from Infix to postfix 1) A/B\*(C+D/E)-F  
i) What is circular queue.  
j) Define doubly linked list and list out its operations.

**SECTION - B**

Answer any **Four** questions:

(4×5=20)

2. Explain with syntax malloc ( ), calloc ( ), free ( ) and realloc ( ).
3. Write a C program for insertion sort.

P.T.O.



4. Write C code for insert an element in stack.
5. Differentiate between queue and double ended queue.
6. What are the advantages and disadvantages of linked list.

### SECTION - C

Answer any **Four** questions:

(4×10=40)

7. Write a C program to store Student Name, Reg No, date of birth, class of a two students, using file.
  8. Write a C program for binary search and find the given no from list key = 21  
5    9    13    16    19    21
  9. Write a C code to Insert and Delete elements in circular queue.
  10. Explain how to Insert new node at beginning and delete node from middle in singly linked list.
  11. Write a note on
    - a) fseek (), ftell ()
    - b) Static memory.
    - c) Expand LIFO, FIFO
    - d) POP ()
    - e) Priority queue
-



0080464

41224/B240



Reg. No.

--	--	--	--	--	--	--	--

**II Semester B.C.A. UG Examination, September - 2020**  
**DIGITAL LOGIC AND COMPUTER DESIGN**  
**(Regular)**

**Time : 3 Hours**

**Maximum Marks : 80**

**Instructions to Candidates:**

- 1) All sections are Compulsory
- 2) Draw neat diagram wherever necessary.

**SECTION - A**

1. Answer **all** the questions, each carrying two marks.

**(10×2=20)**

- a. What is number system? Give an example.
- b. Convert  $153_{(10)}$  to Octal.
- c. State distributive law.
- d. Define gate. List types of gates.
- e. What is Combinational Circuit. Give an example.
- f. Define Multiplexer.
- g. What is flip-flop.
- h. What is Ripple Counter.
- i. Define Programmable logic array (PLA).
- j. What is RAM. List its types.

**SECTION - B**

Answer any **four** questions.

**(4×5=20)**

2. With help of neat block diagram. Explain digital Computer system.
3. Explain standard form and Canonical form.
4. Explain 4 to 1 line multiplexer. Draw a neat Logic diagram.
5. With the help of neat block diagram. Explain Sequential circuit.
6. Explain Error detection & Error Correction.

**P.T.O.**

**SECTION -C**

Answer any **four** questions.

**(4×10=40)**

7. Explain representation of signed binary number.
8. Simplify following boolean function using K-Map, Draw logic Circuit for the same.

$$F(A, B, C, D) = A'BC + ABCD + AB'C' + A'B'C.$$

9. With help of logic diagram explain 4 bit magnitude Comparator.
  10. Explain types of flip-flops.
  11. Write a short note on followings.
    - a. Sequential Programmable device.
    - b. Registers.
-

0022123

32224/B240

Reg. No.

--	--	--	--	--	--	--	--

**II Semester BCA Degree Examination, September -2020**

**DATA STRUCTURES USING 'C'**

**(Repeaters)**

**Time : 3 Hours**

**Maximum Marks : 80**

**Instructions to Candidates :**

1. Answer All Sections.
2. Draw neat diagrams wherever necessary.

**SECTION - A**

Answer any **TEN** questions:

**(10×2=20)**

1. a) Define Data Structure. Mention its types.  
b) Expand LIFO and FIFO.  
c) Mention the applications of Stack.  
d) Define Linked List.  
e) List different tree traversal techniques.  
f) Define recursion.  
g) Define Height & level of a tree.  
h) Mention the constraints of "Tower of Hanoi" problem while transferring n discs.  
i) What is infix & postfix expression.  
j) Define complete Binary tree.  
k) Write the difference between Stack & Queue.  
l) List the file I/O functions.

**SECTION - B**

Answer any **Four** questions:

**(4×5=20)**

2. Explain realloc() & malloc() functions?
3. Define structure. Write its syntax. Create structure variable.

**P.T.O.**



4. Explain various operations of queue.
5. Write a C program to find factorial of given number using recursion.
6. Explain singly linked list.
7. Explain file error handling functions.

### SECTION - C

Answer any **Four** questions:

(4×10=40)

8. Convert following infix expression to postfix & prefix expression. (10)
    - a)  $A+B-C*D$
    - b)  $A+B*C-D/E*F$
    - c)  $(A+B)*(D-C)$
  9. a) Write a C program to perform Arithmetic operations on pointers. (5)  
b) Explain `getw()` and `putw()` functions. (5)
  10. Explain `PUSH()` & `POP()` and `DISPLAY()` Function of stack. (10)
  11. Explain circular linked list & doubly linked list. (10)
  12. Define following terms with an example. (5×2=10)
    - a) Root.
    - b) Siblings.
    - c) Degree of a node.
    - d) Path
    - e) Ancestors.
-