

## 17MAT31

c. Solve  $u_{n+2} + 6u_{n+1} + 9u_n = 2^n$  with  $u_0 = u_1 = 0$  using z-transform.

(06 Marks)

# Module-3

5 a. Fit a straight line y = ax + b for the following data by the method of least squares.

x :	1	3	4	6	8	9	11	14	
y :	1	2	4	4	5	7	8	9	

(08 Marks)

b. Calculate the coefficient of correlation for the data:

x :	92	89	87	86	83	77	70	63	53	50
y :	86	83	91	77	68	85	54	82	37	57

(06 Marks)

c. Compute the real root of  $x\log_{10}x - 1.2 = 0$  by the method of false position. Carry out 3 iterations in (2, 3). (06 Marks)

6 a. Fit a second degree parabola to the following data y = a + bx + cx

x :	1	1.5	2	2.5	3	3.5	4
y :	1.1	1.3	1.6	2	2.7	3.4	4.1

(08 Marks)

b. If  $\theta$  is the angle between two regression lines, show that

 $\tan \theta = \left(\frac{1-r^2}{r}\right) \frac{\sigma_x \sigma_y}{\sigma_x^2 + \sigma_y^2} ; \text{ explain significance of } r = 0 \text{ and } r = \pm 1.$  (06 Marks)

c. Using Newton Raphson method, find the real root of the equation  $3x = \cos x + 1$  near  $x_0 = 0.5$ . Carry out 3 iterations. (06 Marks)

#### Module-4

7 a. From the following table, estimate the number of students who obtained marks between 40 and 45.

Marks :	30-40	40 - 50	50 - 60	60 - 70	70 - 80
No. of students	31	42	_51	35	31
	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )		(1) Sec. 1		(08 N

b. Use Newton's dividend formula to find f(9) for the data:

6 equal parts

		1/	13	11	7	5		X
f(x) : 150 392 1452 2366 520	2	5202	2366	1452	392	150	(x) :	f(x

c. Find the approximate value of  $\int_{-\infty}^{\pi/2} \sqrt{\cos\theta} \, d\theta$  by Simpson's  $\frac{1}{3}$ <sup>rd</sup> rule by dividing  $\left[0, \frac{\pi}{2}\right]$  into

(06 Marks)

(06 Marks)

#### OR

8 a. The area A of a circle of diameter d is given for the following values:

a : 5026 5674 6362 7088 785	d	Y	80	85	90	95	100
	a	:	5026	5674	6362	7088	7854

- Calculate the area of circle of diameter 105 by Newton's backward formula. (08 Marks)
  b. Using Lagrange's interpolation formula to find the polynomial which passes through the points (0, -12), (1, 0), (3, 6), (4, 12). (06 Marks)
- c. Evaluate  $\int_{4} \log_{e} x \, dx$  taking 6 equal parts by applying Weddle's rule. (06 Marks)

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# 17MAT31

#### Module-5

- 9 a. If  $\vec{F} = 3xy\hat{i} y^2\hat{j}$ , evaluate  $\int_{C} \vec{F} \cdot d\vec{r}$  where 'C' is arc of parabola  $y = 2x^2$  from (0, 0) to (1, 2)
  - b. Evaluate by Stokes theorem  $\oint_C (\sin z \, dx - \cos x \, dy + \sin y \, dz), \text{ where C is the boundary of the rectangle } 0 \le x \le \pi ;$   $0 \le y \le 1, z = 3$ (06 Marks)
  - c. Prove that the necessary condition for the  $I = \int f(x, y, y') dx$  to be extremum is

 $\frac{\partial f}{\partial y} - \frac{d}{dx} \left( \frac{\partial f}{\partial y'} \right) = 0$ 

(06 Marks)

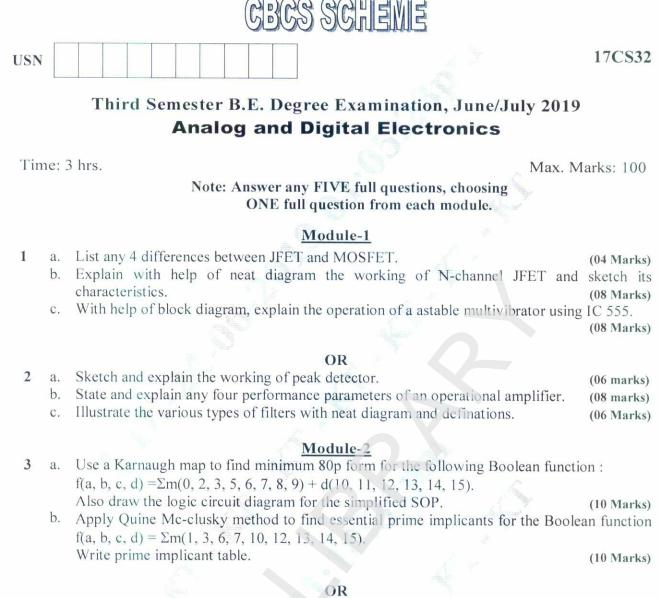
(06 Marks)

#### OR

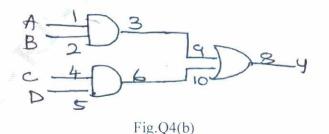
- 10 a. Using Green's theorem evaluate  $\int_{C} (3x^2 8y^2) dx + (4y 6xy) dy$ , where C is the boundary of the region bounded by the lines x = 0, y = 0, x + y = 1. (08 Marks)
  - b. Find the external value of  $\int_{0}^{\pi/2} [(y')^2 y^2 + 4y \cos x] dx$ . Given that y(0) = 0,  $y\left(\frac{\pi}{2}\right) = 0$ .
  - c. Prove that the shortest distance between two points in a plane is along a straight line joining them. (06 Marks)

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- There are 4 adjacent parking slots in Mega Inc. executive parking area. Each slot is equipped a. with sensor whose output is asserted high when a car is occupying the slot. Write a truth table so that the output is high if two or more vacant parking is available.
  - i) Write truth table
  - ii) Find the expression of the system that will signal the existence of two or more vacant slots
  - iii) Simplify the expression
  - iv) Draw the logic diagram for simplified expression.
  - b. Briefly explain an HDL implementation models. And write the HDL program for the following circuit shown in using in figure Fig.Q4(b) using structural model. (07 Marks)



What is hazards? List the types of hazards. C.

(03 Marks)

(10 Marks)

1 of 2

4

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

## Module-3

5	a.	Implement the full adder outputs using $3 - 8$ decoder.	(07 marks)
	b.	Design one bit magnitude comparator and implement it using de-multiplexer	(08 Marks)
	с.	Distinguish between combinational and sequential circuit.	(05 Marks)
		OR	
			to take the first start start

6	a.	Design a seven segment display using PLA.	(10 Marks)
	b.	Show now 1 : 4 de-multiplexer is used to get 1 : 16 de-multiplexer.	(04 Marks)
	c.	With the help of block diagram explain PAL and PLA.	(06 Marks)

#### Module-4

- 7 a. The sequence 1011 is applied to the output of a 4 bit serial shift register that is initially cleared. With the help of diagram show how sequence is being entered serially into the register.
   (08 Marks)
  - b. Design a self correcting modulo-6 counter in which all the unused state leads to state ABC = 000. (08 Marks)
  - c. Draw the logic diagram, truth table and waveforms for a two flip-flop ripple counter.

(04 Marks)

#### OR

8 a. Sketch a ring counter and Jonnson counter and write its truth table. (08 Marks)

- b. Explain how toggle flip-flop is used as frequency divider circuit. Sketch the output waveforms. (08 Marks)
- c. A 4-bit binary asynchronous counter is connected. With a clock of 500 KHz frequency. Find the time period of the wave forms at the o/p of all the flop-flops. (04 Marks)

## Module-5

9 a. Design synchronous counter for the sequence 1 - 3 - 5 - 7 - 1 using J-K flip-flop. (12 Marks) b. Explain digital clock with neat diagram. (04 Marks)

c. Explain the terms accuracy and resolution for D/A converter. (04 Marks)

#### OR

10a. Explain with block diagram the operation of successive approximation ADC.(08 Marks)b. Explain the binary ladder with digital input 1100.(08 Marks)

- c. For a 5 bit resistive divider, determine the following :
  - i) Weight assigned to binary
  - ii) Weight assigned to second and third LSB
  - iii) The change in output voltage due to a change in the LSB, the second LSB and the third LSB
  - iv) The output voltage for a digital input of 10101.

Assume 0 = 0V and 1 = +10V.



# Third Semester B.E. Degree Examination, June/July 2019 Data Structures and Applications

GBCCS SCHEME

Time: 3 hrs.

Max. Marks: 100

# Note: Answer any FIVE full questions, choosing ONE full question from each module.

#### Module-1

- 1 a. Define Data structures. Give its classification. What are the basic operations that can be performed on data structure? (08 Marks)
  - b. Give the ADT for sparse matrix. Express the given sparse matrix in the triplet form and find its transpose.

	10	0	0	25	0	
	0	23	0	0	45	
Λ —	0	0	0	0	32	(00.35.1.)
A =	42	0	0	31	0	(08 Marks)
2	0	0	0	0	0	
	0	0	30	0	0	
ider th	ne oiv	en 2	nol	nom	iale	

c. Consider the given 2 polynomials,  $A(x) = 4x^{15} + 3x^4 + 5$  and  $B(x) = x^4 + 10x^2 + 1$ Represent the polynomials using Array of structures.

(04 Marks)

(06 Marks)

#### OR

- 2 a. Explain the dynamic memory allocation functions in detail. (08 Marks)
  - b. Write a C program using pointers to (i) Concatenate two strings, (ii) reverse a string. (06 Marks)
  - c. Apply Knut-Morris-Pratt (KMP) pattern matching algorithm to search the pattern "abcdabcy" in the text "abcxabcdabcdabcdabcdabcy". (06 Marks)

#### Module-2

- 3 a. Define stack data structure and give the ADT for stack. Write C functions for push() and pop() operations. (08 Marks)
  - b. Convert the given infix expressions to postfix and prefix expression.
    - (i) (a+b)\*d+e/(f+g\*h)+i

(ii) ((a / (b - c + d)) \* (e - f) \* g)

c. Write an algorithm for evaluation of postfix expression. Trace the same for the expression ab/c - de \* t ac \* t where a = 6, b = 3, c = 1, d = 2, e = 4. (06 Marks)

#### OR

4 a. Define recursion. Write C recursive functions for the following :

(i) Tower of Hanoi
(ii) Factorial of a give number.
(07 Marks)

b. Write C functions for inserteq() and deletecq() operations on a circular queue.
(05 Marks)
(08 Marks)
(08 Marks)

1 of 3

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# Module-3

- Define linked lists. Explain in detail, the primitive operations performed on Supply Linked 5 a. (12 Marks) List (SLL). List the different types of linked lists.
  - Write C functions for the following operations on Doubly Linked List (DLL). b.
    - (i) Concatenation of two DLL.
    - (ii) Search the DLL for the given key element.

## OR

- Write a C program to implement linked stacks. (08 Marks) 6 a. b.
  - Write an algorithm to add 2 polynomials using circular simply linked list (SLL). And also represent the given polynomial using CSLL.

$$P(x, y, z) = 6x^{2}y^{2}z - 4yz^{5} + 3x^{3}yz + 2xy^{5}z - 2xyz^{3}$$
(08 Marks)

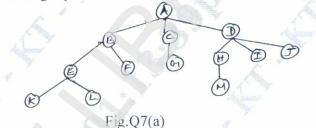
For the given sparse matrix give the linked list representation. C.

$$\mathbf{A} = \begin{bmatrix} 0 & 0 & 4 & 0 & 0 \\ 6 & 5 & 0 & 0 & 0 \\ 0 & 3 & 0 & 1 & 0 \\ 0 & 0 & 0 & 0 & 2 \end{bmatrix}$$

(04 Marks)

#### Module-4

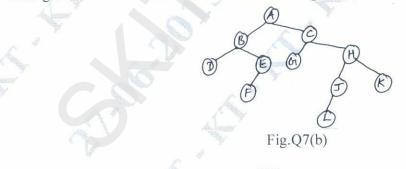
Define tree data structure. Represent the tree given in Fig.Q7(a) using (i) List representation 7 a. (ii) Left-Child Right-Sibling representation (iii) Degree-two or Binary tree representation.



#### (08 Marks)

(08 Marks)

b. Write recursive C functions for in-order, pre-order, post-order traversals of binary tree (BT). Also give the 3 traversals for the BT shown in Fig.Q7(b). (12 Marks)



#### OR

- Define Binary Search Tree (BST). Construct BST for the element step-by-step, 8 a. 100, 85, 45, 55, 110, 20, 70, 65, 113, 145, 132, 96
  - Define threaded binary trees. Given in-order sequence: DJGBHEAFKIC and post-order b. (08 Marks) sequence : JGDHEBKIFCA, construct BT for the same. (04 Marks)
  - Write an algorithm for deleting a key element from BST. C.

2 of 3

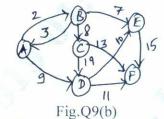
(08 Marks)

# Module-5

Define the terminologies with example for graph data structure. a. (i) Graph

9

- (ii) Multigraph (iii) Complete graph. (06 Marks)
- Give the adjacency matrix and adjacency list representation for the weighted graph given in b. Fig.Q9(b). (06 Marks)



Write an algorithm for BFS and DFS graph traversal methods. С.

(08 Marks)

#### OR

Apply insertion sort technique for the following elements 77, 33, 44, 11, 88, 22, 66, 55. 10 a.

(08 Marks)

Explain Hashing and collision. What are the methods used to resolve collision. b. (08 Marks) What are the basic operations that can be performed on a file? List the methods used for file с. organization (any 2). (04 Marks)

		CBCS SCHEME	
USN			17CS3
		Third Semester B.E. Degree Examination, June/July 2019	
		<b>Computer Organization</b>	
Tim	10.3	B hrs. Max M	1 100
1 111	10. 5	Note: Answer any FIVE full questions, choosing ONE full question from each module.	arks: 100
		Module-1	
1	a.	Write the basic performance equation. Explain the role of each of the parame	eters in th
	L	equation of the performance of the computer.	(04 Mark
	b. с.	Draw and explain the connections between the processor and the main memory. Write a program to evaluate the arithmetic statement $V = (A + B) + (C + D)$	(08 Mark
	С.	Write a program to evaluate the arithmetic statement $Y = (A + B) * (C + D)$ us address, two-adderss, one-adderss and zero – address instructions.	(08 Mark
		address, the address and zero address instructions.	(00 10121 K
		OR	
2	a.	What is an addressing mode? Explain any four addressing modes with examples.	(08 Mark
	b.	Explain the concept of stack frames, when subroutines are nested.	(06 Mark
	C.	Explain the shift and rotate operations with examples.	(06 Mark
		Module-2	
3	a.	Give comparison between memory mapped I/O and I/O mapped I/O.	(04 Mark
	b.	Explain the following methods of handling interrupts from multiple devices.	
		<ul><li>i) Interrupt nesting /priority structure</li><li>ii) Daisy chain method.</li></ul>	(00 M 1
	c.	What is bus arbitration? Explain distributed arbitration with a neat diagram.	(08 Mark (08 Mark
		and	(00 Mark
		OR	
4	а.	Draw neat timing diagrams and explain :	
		<ul><li>i) Multicycle synchronous bus transfer for a read operation.</li><li>ii) Asynchronous bus transfer for a write operation.</li></ul>	(12 Mont
	b.	Explain the following with respect to USB.	(12 Mark
		i) USB architecture	
		ii) USB addressing.	(08 Mark
		Module-3	
5	a.	With a neat diagram, explain the internal organization of a $2M \times 8$ dynamic me	mory chi
	h		(08 Mark
	b. с.	Distinguish between SRAM and DRAM. Describe any two mapping functions in cache.	(04 Mark
		beseries any two mapping functions in cache.	(08 Mark
		OR	
6	a.	What is virtual memory? With a diagram, explain how virtual memory address is	
	b.	Define the following :	(08 Mark
		i) Memory latency ii) Memory bandwidth iii) Hit-rate iv) Miss-penalty.	(04 Marks
	c.	Describe the working principle of a typical magnetic disk.	(08 Mark

1 of 2

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.

# Module-4

- Convert the following pairs of decimal numbers to 5-bit signed 2's complement binary 7 a. numbers and add them. State whether overflow has occurred. (06 Marks) i) -5 and 7 ii) -10 and -13 iii) -14 and 11.
  - (06 Marks)
  - Draw 4-bit carry-look ahead adder and explain. b. Explain Booth's algorithm, multiply +15 and -6 using Booth's multiplication. (08 Marks) C.

# OR

- Explain the concept of carry-save addition for the multiplication operation  $M \times Q = P$  for 8 a. (08 Marks) 4-bit operands, with diagram and suitable example. (06 Marks) Explain IEEE standard for floating - point numbers.
  - b. Perform the non-restoring division for 8 ÷ 3 by showing all the steps (06 Marks) C.

## Module-5

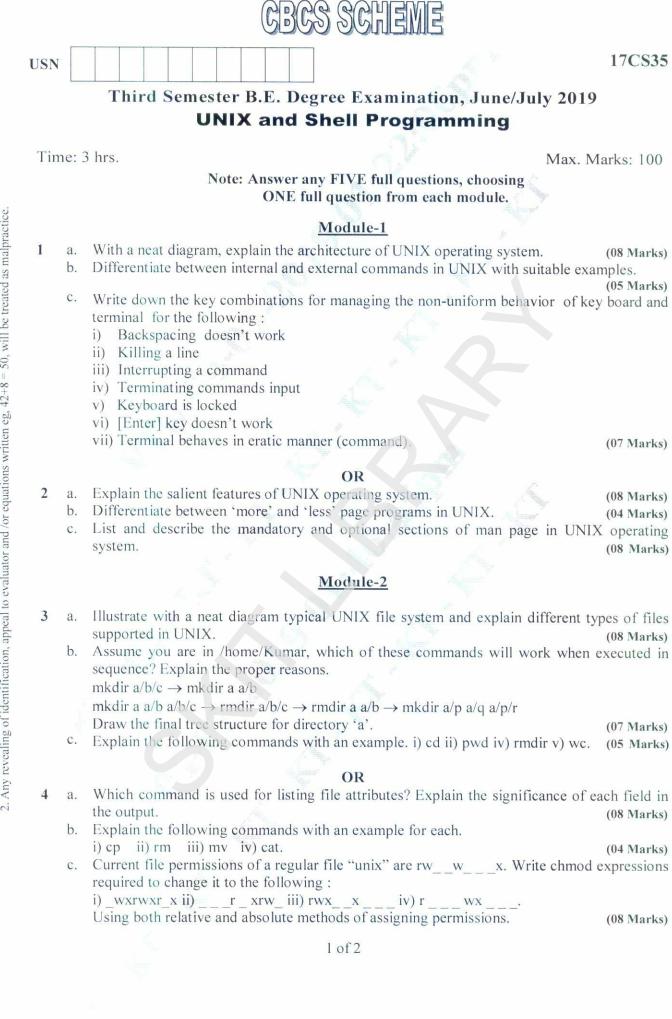
- Draw and explain multiple bus organization of CPU. And write the control sequence for the 9 a. instruction Add R4, R5, B6 for the multiple bus organization. (10 Marks)
  - Explain with block diagram the basic organization of a micro programmed control unit. b.

(10 Marks)

# OR

- With block diagram, explain the working of a microwave oven. (10 Marks) 10 a.
  - (10 Marks) Explain the structure of general-purpose multiprocessors with diagrams. b.

2 of 2



(02 Marks)

# Module-3

- Explain the three modes of vi. Indicate clearly how can you switch form one mode to 5 2 another. Explain the following input mode commands : i, I, a A, r, R, o, O, s, S. (10 Marks)
  - b. Explain what these wild-card pattern match (06 Marks) ii) \*[! 0 – 9]\* iii) \*.[!t][!x][!t] i) [A – Z]???? \*
  - c. Explain the navigation keys for the following types of navigations in vi editor. i)Movement in four directions (04 Marks) ii)Word navigation.

#### OR

With suitable examples, explain the 'grep' command with its various options. (06 Marks) 6 a.

- b. Briefly explain Basic Regular Expression (BRE) and Extended Regular Expression (ERE) (10 Marks) metacharacters.
- Write a regular expression to match the following i) a decimal number which is non negative C. (04 Marks) and floating point number ii) A valid 'C' variable.

#### Module-4

Explain the following commands with an example for each. i) head ii) tail iii) cut iv) paste. 7 a. (08 Marks)

- b. What is shell programming? Write a shell program to create a simple calculator which can perform basic arithmetic operations like addition, subtraction, multiplication or division, (10 Marks) depending upon the user input.
- Write the syntax for if-else-fi statement in shell programming. с.

## OR

Write a shell program to get the following details of the student. Name, age, USN and 8 a. gender. Output all the details to the terminal. And also output whether the student is eligible (08 Marks) to vote or not with suitable messages.

- b. Distinguish between hard links and soft links. (04 Marks)
- c. Write and explain the syntax of 'while' and 'for' loops in shell programming. (08 Marks)

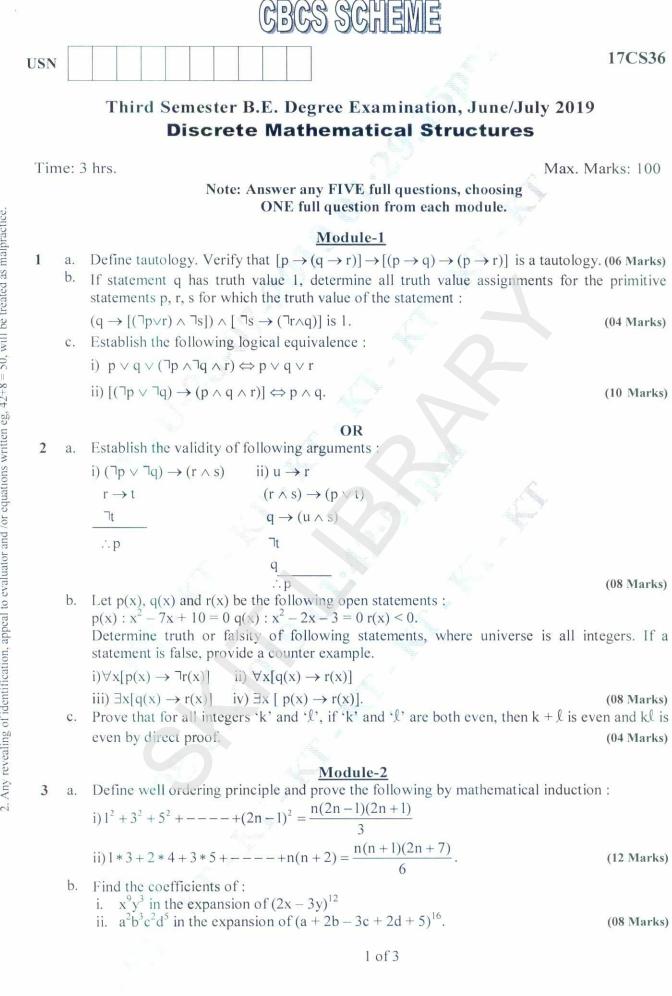
#### Module-5

- a. Write a Perl script to determine whether the given year is a leap year or not. (08 Marks) 9 b. What is the difference between a job and a process? How do you i) suspend the foreground job ii) move a suspended job to the background iii) bring back a suspended job to the (06 Marks) foreground? (06 Marks)
  - c. Explain the mechanism of process creation.

#### OR

- Explain the following string handling functions of PERL with example : 10 a. (08 Marks) iii) substr iv) reverse. i) length ii) index b. Explain the following commands : (08 Marks) ii) cron iii) nice iv) nohup. i) at
  - With suitable examples, explain 'split' and 'join' functions in PERL. (04 Marks) C.





2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

#### OR

- 4 a. A women has 11 close relatives and she wishes to invite 5 of them to dinner. In how many ways can she invite them in following situations,
  - i. There is no restriction on the choice
  - ii. Two particular persons will not attend separately
  - iii. Two particular persons will not attend together.
  - b. How many arrangements are there for all letters in word SOCIOLOGICAL? In how many of these arrangements all vowels are adjacent. (06 Marks)

c. For the Fibonacci sequence  $F_0$ ,  $F_1$ ,  $F_2$ , ... prove that  $F_n = \frac{1}{\sqrt{5}} \left| \left( \frac{1+\sqrt{5}}{2} \right)^n - \left( \frac{1-\sqrt{5}}{2} \right)^n \right|$ 

(08 Marks)

(06 Marks)

#### Module-3

- 5 a. Let  $A = \{1, 2, 3, 4\}$  and  $B = \{1, 2, 3, 4, 5, 6\}$ .
  - i. How many functions are there from A to B?
  - ii. How many of these are one to one?
  - iii. How many are onto?
  - iv. How many functions are there from B to A?
  - v. How many of these are onto?
  - vi. How many are one to one?

(06 Marks)

- b. A computer operator is given a magnetic tape that contains 500,000 words of four or fewer lowercase letters. Can it be that the 500,000 words are all distinct? (06 Marks)
- c. Let f, g, h : R  $\rightarrow$  R where f(x) = x<sup>2</sup>, g(x) = x + 5 and h(x) =  $\sqrt{x^2 + 2}$ . Show that (hog) of = ho(gof). (08 Marks)

#### OR

- 6 a. Let A = {1, 2, 3, 6, 9, 18} and define R on A by xRy if "x divides y", Draw the Hasse diagram for the poset (A, R). Also write the matrix of relation. (08 Marks)
  - b. Consider Poset whose Hasse diagram is given below. Consider B = {3, 4, 5}. Find upper and lower bounds of B, least upper bound and greatest lower bound of B. (04 Marks) (Ref. Fig.O6(b)).

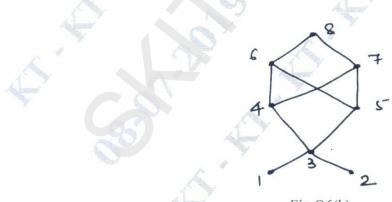


Fig.Q6(b)

- c. Let A = {1, 2, 3, 4, 5} × {1, 2, 3, 4, 5} and define R on A by  $(x_1, y_1)$  R  $(x_2, y_2)$  if  $x_1 + y_1 = x_2 + y_2$ .
  - i. Verify that R is an equivalence relation on A
  - ii. Determine equivalence classes [(1, 3)], [(2, 4)] and [(1, 1)]
  - iii. Determine partition of A induced by R.

(08 Marks)

2 of 3

(06 Marks)

# Module-4

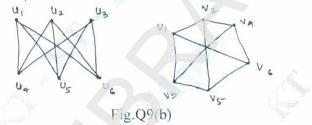
- 7 a. In how many ways can the 26 letters of English alphabet be permuted so that none of the patterns CAR, DOG, PUN or BYTE occurs? (08 Marks)
  - b. There are eight letters to eight different people to be placed in eight different addressed envelops. Find the number of ways of doing this so that atleast one letter gets to right person.
     (04 Marks)
  - c. Four persons P<sub>1</sub>, P<sub>2</sub>, P<sub>3</sub>, P<sub>4</sub> who arrive late for a dinner party find that only one chair at each of five table T<sub>1</sub>, T<sub>2</sub>, T<sub>3</sub>, T<sub>4</sub> and T<sub>5</sub> is vacant. P<sub>1</sub> will not sit at T<sub>1</sub> or T<sub>2</sub>, P<sub>2</sub> will not sit at T<sub>2</sub>, P<sub>3</sub> will not sit at T<sub>3</sub> or T<sub>4</sub> and P<sub>4</sub> will not sit at T<sub>4</sub> or T<sub>5</sub>. Find the number of ways they can occupy the vacant chairs. (08 Marks)

#### OR

- 8 a. Find the recurrence relation and the initial condition for the sequence 0, 2, 6, 12, 20, 30, 42, . .... Hence find the general term of the sequence. (10 Marks)
  - b. If  $a_0 = 0$ ,  $a_1 = 1$ ,  $a_2 = 4$  and  $a_3 = 37$  satisfy the recurrence relation  $a_{n+2} + ba_{n+1} + ca_n = 0$  for  $n \ge 0$ , determine the constants b and c and then solve the relation for  $a_n$ . (10 Marks)

#### Module-5

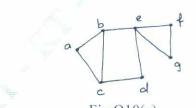
- 9 a. Merge sort the list -1, 7, 4, 11, 5, -8, 15, -3, -2, 6, 10, 3.
  - b. Determine whether the following graphs are isomorphic or not. (06 Marks)



c. Define the following with an example to each.
i) Simple graph ii) Complete graph iii) Regular graph iv) Spanning sub graph v) Induced subgraph vi) Complete Bipartite graph vii) Tree viii) Complement of graph. (08 Marks)

#### OR

- 10 a. Define trail, circuit, path, cycle. In the graph shown below determine : [Ref.Q10(a)]
  - i. a walk from b to d that is not a trail
  - ii. b-d trail that is not a path
  - iii. a path from b to d
  - iv. a closed walk from b to b that is not a circuit
  - v. a circuit from b to b that is not cycle
  - vi. a cycle form b to b.



## Fig.Q10(a)

- b. Define optimal tree and construct an optimal tree for a given set of weights {4, 15, 25, 5, 8, 16}. Hence find the weight of optimal tree. (06 Marks)
- c. Prove that in a graph. The sum of degrees of all vertices is an even number and is equal to twice the number of edges in the graph. (04 Marks)

\*\*\*\*\* 3 of 3 (10 Marks)



# Third Semester B.E. Degree Examination, June/July 2019 Additional Mathematics – I

CBCS SCHEME

Time: 3 hrs.

USN

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

# Module-1

1	a.	Find the sine of the angle between $\vec{a} = 2\hat{i} - 2\hat{j} + \hat{k}$ and $\vec{b} = \hat{i} - 2\hat{j} + 2\hat{k}$ .	(08 Marks)
	b.	Express the complex number $\frac{(1+i)(1+3i)}{1+5i}$ in the form $a + ib$ .	(06 Marks)
	C.	Find the modulus and amplitude of $\frac{(1+i)^2}{3+i}$ .	(06 Marks)
		OR	
2	a.	Show that $(1 + \cos\theta + i\sin\theta)^n + (1 + \cos\theta - i\sin\theta)^n = 2^{n+1} \cdot \cos^n\left(\frac{\theta}{2}\right) \cdot \cos\left(\frac{n\theta}{2}\right)$ .	(08 Marks)
	b.	If $\vec{a} = 2\hat{i} + 3\hat{j} - 4\hat{k}$ and $\vec{b} = 8\hat{i} - 4\hat{j} + \hat{k}$ , then prove that $\vec{a}$ is perpendicular to $\vec{b}$	. Also find
		$ \vec{a} \times \vec{b} $ .	(06 Marks)
	C.	Determine $\lambda$ such that $\vec{a} = \hat{i} + \hat{j} + \hat{k}$ , $\vec{b} = 2\hat{i} - 4\hat{k}$ and $\vec{c} = \hat{i} + \lambda\hat{j} + 3\hat{k}$ are coplanar.	(06 Marks)
		Module-2	
3	a.	If $y = \cos(m \log x)$ then prove that $x^2 y_{n+2} + (2n+1)xy_{n+1} + (m^2 + n^2)y_n = 0$ .	(08 Marks)
	b.	Find the angle of intersection of the curves $r^2 \sin 2\theta = a^2$ and $r^2 \cos 2\theta = b^2$ .	(06 Marks)
	c.	Find the pedal equation of the curve $r = a(1 + \sin \theta)$ .	(06 Marks)
		OB	
4	a.	Obtain the Maclaurin's series expansion of log sec x up to the terms containing $x^6$ .	(08 Marks)
	b.	If $u = \csc^{-1}\left(\frac{x^{\frac{1}{2}} + y^{\frac{1}{2}}}{x^{\frac{1}{3}} + y^{\frac{1}{3}}}\right)$ , prove that $xu_x + yu_y = -\frac{1}{6}\tan u$ .	(06 Marks)
	C.	Find $\frac{\partial(u, v, w)}{\partial(x, y, z)}$ where $u = x + y + z$ , $v = y + z$ , $w = z$ .	(06 Marks)

# Module-3

5 a. Obtain a reduction formula for  $\int_{0}^{\pi/2} \sin^{n} x dx$ ,  $(n \ge 0)$ . (08 Marks)

b. Evaluate 
$$\int_{0}^{2a} x^2 \sqrt{2ax - x^2} dx$$
. (06 Marks)

c. Evaluate  $\int_{0}^{1} \int_{\infty}^{\sqrt{x}} xy \, dy \, dx$  (06 Marks)

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# **17MATDIP31**

OR

- a. Evaluate  $\int_{a}^{a} \int_{a}^{x} \int_{a}^{x+y} e^{x+y+z} dz dy dx$ . (08 Marks) 6 b. Evaluate  $\int_{-\infty}^{\infty} \frac{x^6}{(1+x^2)^{9/2}} dx$ . (06 Marks)
  - c. Evaluate  $\iint xydxdy$  where A is the area bounded by the circle  $x^2 + y^2 = a^2$  in the first (06 Marks) quadrant.

# Module-4

- A particle moves along the curve  $\vec{r} = \cos 2t \hat{i} + \sin 2t \hat{j} + t \hat{k}$ . Find the components of velocity 7 a. and acceleration at  $t = \frac{\pi}{\Re}$  along  $\sqrt{2}\hat{i} + \sqrt{2}\hat{j} + \hat{k}$ . (08 Marks)
  - Find divergence and curl of the vector  $\vec{F} = (xyz + y^2z)\hat{i} + (3x^2 + y^2z)\hat{j} + (xz^2 y^2z)\hat{k}$ . b. (06 Marks)
  - Find the directional derivative of  $\phi = x^2 y z^3$  at (1, 1, 1) in the direction of  $\hat{i} + \hat{j} + 2\hat{k}$ . C. (06 Marks)

- Find the angle between the tangents to the curve  $x = t^2$ ,  $y = t^3$ ,  $z = t^4$  at t = 2 and t = 3. 8 a. (08 Marks) Find curl(curl $\vec{A}$ ) where  $\vec{A} = xy\hat{i} + y^2z\hat{j} + z^2y\hat{k}$ (06 Marks) b.
  - Find the constants a, b, c such that the vector field  $(\sin y + az)\hat{i} + (bx \cos y + z)\hat{j} + (x + cy)\hat{k}$ c. (06 Marks) is irrotational.

# Module-5

9 a. Solve  $\frac{dy}{dx} = \frac{y}{x} + \sin\left(\frac{y}{x}\right)$ . (08 Marks) b. Solve  $\frac{dy}{dx} + y \cot x = \sin x$ . (06 Marks) c. Solve  $\frac{dy}{dx} + \frac{y}{x} = y^2 x$ . (06 Marks) OR

- 10 a. Solve  $x^2 y dx (x^3 + y^3) dy = 0$ . b. Solve  $x^2 \frac{dy}{dx} = 3x^2 - 2xy + 1$ . (06 Marks)
  - c. Solve  $\left[ y \left( 1 + \frac{1}{x} \right) + \cos y \right] dx + \left[ x + \log x x \sin y \right] dy = 0$ . (06 Marks)

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(08 Marks)



17CPH39/49 Question Paper Version : D

# Third/Fourth Semester B.E. Degree Examination, June/July 2019 Constitution of India, Professional Ethics & Human Rights

# (COMMON TO ALL BRANCHES)

Time: 2 hrs.]

USN

[Max. Marks: 30

# **INSTRUCTIONS TO THE CANDIDATES**

- 1. Answer all the thirty questions, each question carries **ONE** mark.
- 2. Use only Black ball point pen for writing / darkening the circles.
- 3. For each question, after selecting your answer, darken the appropriate circle corresponding to the same question number on the OMR sheet.
- 4. Darkening two circles for the same question makes the answer invalid.
- 5. Damaging/overwriting, using whiteners on the OMR sheets are strictly prohibited.

1.	The 9 <sup>th</sup> schedule to the Indian Co	onstitution was added by;
	a) 1 <sup>st</sup> Amendment	b) 8 <sup>th</sup> Amendment
	c) 9 <sup>th</sup> Amendment	d) 42 <sup>nd</sup> Amendment

- Which one of the following Articles of the directive principles of state policy deals with the promotion of international peace and security?
  a) 51
  b) 48A
  c) 43A
  d) 41
- 3. The ideal of 'Welfare state' in the Indian Constitution is enshrined in its ;
  a) Preamble
  b) Directive Principles of State Policy
  c) Fundamental rights
  d) 7<sup>th</sup> Schedule

4. For a citizen of India, the duty to pay taxes is a ;
a) Fundamental duty
b) Legal obligation
c) Constitutional obligation
d) Moral obligation

- 5. Which of the following statements regarding the pardoning Powers of the President is incorrect?
  - a) Pardoning power of the president is restricted.
  - b) President can completely pardon any sentence
  - c) The power to pardon is the discretionary power of President

d) None of these.

# 17CPH39/49

- Which one of the following is responsible for the preparation and presentation of union 6. budget of the parliament? b) Department of Economic Affairs
  - a) Department of Revenue
  - c) Department of Expenditure
- It is not a kind of trademark: 7. a) Designs c) Symbols
- b) Sounds
- d) Good will

b) Principles

b) Forging

d) Symbols

d) None of these

d) None of these

- These are not trade secrets 8. a) Formulas c) Devices
- Stealing of intellectual property means 9.
  - a) Cooking
  - c) Plagiarism
- 10. Cooking means
  - a) Boiling under pressure
  - b) Making deceptive statements
  - c) Retaining results with fit the theory
  - d) Misleading the public about the quality of a product.
- 11. This is not dishonesty in engineering
  - a) Forging
    - c) Trimming

- b) Blending
- d) Cooking
- 12. One of the ways of reducing the risk is
  - a) Complex interaction
- b) Tight coupling
- c) Normalization of deviance
- d) Changing the working system.
- 13. The members of the Constituent Assembly which drafted the constitution of India were, a) Nominated by the British parliament
  - b) Nominated by the Governor General
  - c) Elected by the Legislative Assemblies of various provinces
  - d) Elected by the Indian National Congress and Muslim league.

14. Which one of the following determines that the Indian constitution is federal?

- a) A written and rigid constitution
- b) An independent judiciary
- c) Vesting of residuary powers with the centre
- d) Distribution of powers between the centre and the state.
  - -D2-

## 17CPH39/49

- 15. The Indian parliamentary system is different from the British parliamentary system in which of the following respects?

  - a) Both a real and a nominal executive b) A system of collective responsibility
  - c) Bicameral legislature
- d) A different judicial review
- 16. Which one of the following objectives is not embodied in the Preamble to the Constitution of India?
  - a) Liberty of thought
- b) Economic liberty
- c) Liberty of expression
- d) Liberty of belief
- 17. The mind of the makers of the Constitution of India is reflected in which of the following? a) The Preamble
  - b) The Fundamental Rights
  - c) The Directive Principles of State policy
  - d) The fundamental duties.
- 18. Which one of the following rights was described by Dr. B.R. Ambedkar as the heart and soul of the Constitution?
  - a) Right to freedom of religion
  - c) Right to equality
- b) Right to property
- d) Right to constitutional remedies.
- **19.** Which of the following statement is incorrect regarding budget?
  - a) The term 'Budget' is not explicitly stated in Indian Constitution
  - b) The Budget can be introduced in Lok Sabha only
  - c) The introduction of budget required recommendation of the President
  - d) The Budget is passed like an ordinary bill in the parliament.
- 20. The power of the Supreme Court of India to decide disputes between the Centre and the States falls under its;
  - a) Advisory jurisdiction c) Original jurisdiction
- b) Appellate jurisdiction
- d) Constitutional jurisdiction
- 21. The power to increase the number of judges in the Supreme Court of India is vested in;
  - a) The President of India
- b) The Parliament
- c) The Chief Justice of India
- d) The Law Commission.
- 22. There is a Parliamentary System of Government in India because the
  - a) Lok Sabha is elected directly by the people
  - b) Parliament can amend the Constitution
  - c) Rajya Sabha cannot be dissolved
  - d) Council of Ministers is responsible to the Lok Sabha
- 23. Appointment, posting and promotion of district judge in a state are made by the a) Governor in consultation with the High Court
  - b) Chief Justice of the High Court of that state in consultation with the Governor
  - c) President in consultation with the High Court
  - d) President in consultation with the Governor and the High Court.

- 24. Notifications in respect of by-elections to the Lok Sabha are issued by the
  - b) Speaker of Lok Sabha a) Election commission
    - d) No notification is required for by-election.
- 25. With reference to 'None of the Above (NOTA)' option on electronic voting machines and ballot papers, consider the following statements :
  - I) The Citizens of India have the right to negative vote by exercising the 'None of the Above' option in EVMs and ballot papers.
  - II) If NOTA gets the highest votes is an election, then the election is conducted again.
  - b) I and II a) I only
  - c) II only

c) The Whip

- d) None of these
- 26. With reference to 73rd Amendment Act of the constitution, a Grama Sabha is a body consisting of
  - a) All the adult population of the Village under the Panchayat
  - b) The whole population of the villages under the Panchayat other than children less than five years of age.
  - c) The registered voters of the villages under the Panchavat
  - d) None of the above.
- 27. Which of the following is not taken as the aim of engineering ethics?
  - b) Recognition of ethical issues a) Moral imagination
  - d) Shifting of responsibility c) Sense of responsibility
- 28. Which of the following is not a concept of responsibility? a) Minimalist
  - b) Maximalist d) Good works
  - c) Reasonable care
- 29. Corrupt Professional Judgment leads to a) Integrity in R&D c) Conflict of interest
  - b) Reliability
  - d) None of these
- 30. The formulate of a soft drink is an example of b) Trade Secret a) Copy Right d) Trade Marks c) Patent

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17KKM39/49 Question Paper Version : D

# 

# (COMMON TO ALL BRANCHES)

Time: 2 hrs.]

[Max. Marks: 30

# ಸೂಚನೆಗಳು

- ಎಲ್ಲ ೩೦ ಪ್ರಶ್ನೆಗಳಿಗೂ ಊತ್ತರಿಸಿರಿ. ಪ್ರತಿ ಪ್ರಶ್ನೆಗೆ ಒಂದು ಅಂಕ.
- ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಷತ್ರಿಕೆಯಲ್ಲಿ ಯು.ಎಸ್.ಎಷ್ ಸಂಖ್ಯೆ ಹಾಗೂ ಪಶ್ನೆ ಪತ್ರಿಕೆಯ ಶ್ರೇಣಿಯನ್ನು ಅಂಡರೆ A, B, C ಅಥವಾ D ಯುನ್ನು ತಪ್ಪಿಲ್ಲದಂತೆ ಕಡ್ಡಾಯವಾಗಿ ಗುರುತಿಸುವುದು ಅಭ್ಯರ್ಥಿಯ ಜವಾಬ್ದಾರಿಯಾಗಿರುತ್ತದೆ.
- 3. ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ನಿಗದಿಪಡಿಸಿರುವ ಸ್ಥಳದಲ್ಲಿ ಭರ್ತಿಮಾಡದೆ ಹಾಗೆಯೇ ಬಿಟ್ಟಲ್ಲಿ ಅಥವಾ ಭರ್ತಿಮಾಡಿದ ಮಾಹಿತಿಯಲ್ಲಿ ಯಾವುದೇ ವ್ಯತ್ಕ್ರಾಸವಿದ್ದಲ್ಲಿ ಅಂತಹ ಉತ್ತರ ಪತ್ರಿಕೆಗಳನ್ನು ರದ್ದು ಪಡಿಸಲಾಗುವುದು.
- 4. ಕೇಷಲ ಒಂದು ಉತ್ತರವನ್ನು ಮಾತ್ರ ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ಗುರುತಿಸತಕ್ಕದ್ದು. ಒಂದೆ ಪ್ರಶ್ನೆಗೆ ಎರಡು ಉತ್ತರವನ್ನು ಗುರುತಿಸುವುದು ಅಮಾನ್ಯ.
- 5. ಎಲ್ಲಾ ಉತ್ತರಗಳನ್ನು ನಿಮಗೆ ಒದಗಿಸಲಾದ ಓ.ಎಂ.ಆರ್ ಉತ್ತರ ಪತ್ರಿಕೆಯ ಹಾಳೆಯ ಮೇಲೆ ಕಷ್ಟು ಅಥವಾ ನೀಲಿ ಶಾಹಿಯ ಬಾಲ್ಪಾಯಿಂಟ್ ಪೆನ್ನಿನಿಂದ ಗುರುತು ಮಾಡಚೇಕು.
- ವಿಶ್ವಾಮಿತ್ರ ತ್ರಿಶಂಕುವಿಗಾಗಿ ಇದನ್ನು ನಿರ್ಮಿಸಿದನೆಂದು ಗೊರೂರರು ಹೇಳಿದ್ದಾರರೆ.
   ಅ) ಪಾಕಿಸ್ತಾನ
   ಬ) ಎಮ್ಮೇ ಕ) ಈಚಲು ಮರ ಡ) ತ್ರಿಶಂಕು ಸ್ಪರ್ಗ.
- "ಮಹಿಷ ಮಂಡಲ" ಎಂದರೆ
   ಅ) ಅಂದ್ರ ಪ್ರದೇಶ ಬ) ನಭೋಮಂಡಲ ಕ) ಮೈಸೂರು ಡ) ಚಿತ್ರದುರ್ಗ.
- 3. ಬಿ.ಜಿ. ಎಲ್ ಸ್ವಾಮಿಯವರಿಗೆ ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ ಪ್ರಶಸ್ತಿ ತಂದುಕೊಟ್ಟ ಕೃತಿ
   ಅ) ಕಾಲೇಜು ರಂಗ ಬ) ಹಸಿರು ಹೊನ್ನು ಕ) ನಾಕುತಂತಿ ಡ) ಅದಿರಂಗ ಪುರಾಣ.

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- 4. ಅಗೋ ಚೆಲುವಿನ ರಾಣಿ ಬಂದಳು ಹೀಗೆ ಕೂಗಿದ ಬೆಡ್ ಅ) ನಾಲ್ಕನೇ ಬ) ಐದನೇ ಕ) ಆರನೇ ಡ) ಏಳನೇ. 5. ಗೊರೂರರ ಪ್ರಕಾರ ಕಲಿಯುಗದಲ್ಲಿ ಬೇಕಾಗಿರುವ ಗುಣ ಅ) ಕೆಂಪುಗುಣ ಬ) ಸಾತ್ವಿಕ ಗುಣ ಕ) ತಾಮಸ ಗುಣ ಡ) ರಾಜಸಗುಣ. 6. ನೇಣುಗಂಬವ ಕೂಡ ದಿಕ್ಕರಿಸಿ ನುಗ್ಗುವರು – ಇದು ಯಾವ ಕವನದ ಸಾಲು ಡ) ಬೇಂದ್ರೆ ಕವನ. ಅ) ರೋಬೈ ಮತ್ತು ಕೋವಿ ಬ) ಶ್ರಾವಣ ಕ) ಬೆಲ್ಬೀಯ ಹಾಡು 7. ಕಜ್ಜ – ಇದರ ತತ್ವಮ ರೂಪ ಬ) ಕಾವ್ಯ ಡ) ಕಾರ್ಯ. ಅ) ಕಾಯ ಕ) ಕರ್ತ್ಯ 8. ಕತಿಮಸೆ – ಇದು ಅ) ಜೋಡಿಪದ ಚಿ) ಸಂಬಂದಿತ ಪದಗುಂಪು ಕ) ನುಡಿಗಟ್ಟು ಡ) ದ್ವಿರುಕ್ತಿ ಪದ. 9. "ಅಬ್ಬಕ್ಕೇರಿಸು" – ಈ ನುಡಿಗಟ್ಟಿನ ವಿಶೇಷಾರ್ಥ ಅ) ಮೇಲೆಹತ್ತು ಬ) ಹೊಗಳು ಕ) ಅಬ್ಬಕ್ಕೇ ಹೇರಲು ಸಹಕರಿಸು ಡ) ಮೇಲಕ್ಕೇ ಹತ್ತಿಸಬೇಕು. 10. ನೋಡಿದಳು – ಇದರ ನೆಷೇದಾರ್ಥ ಱ) ನೋಡಳು ಬ) ನೋಡುತ್ತಿದ್ದಳು ಕ) ನೋಡಿದ್ದಳು ಡ) ನೋಡುತ್ತಾಳೆ.
- 11. ಕಲಿಭೀಮನೆ ಇದರ ವಿಭಕ್ತಿ

   ಅ) ಚತುರ್ಥಿ
   ಬ) ದ್ವಿತೀಯಾ

   ಕ) ಸಂಭೋಧಾನಾ
   ಡ) ಸಪ್ತಮಿ.
- 12. ಮೂಡಣ ವಿರುದ್ಧ ಪದ ಅ) ಪಡುವಣ ಬ) ತೆಂಕಣ ಕ) ಬಡಗಣ ಡ) ಮೂಡಣ

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13. ದ.ರಾ.ಬೇಂದ್ರೆಯವರ ಕಾವ್ಯನಾಮ ಅ) ಅಂಬಿಕಾತನೆಯ ದತ್ತೆ ಬ) ವಿನಾಯಕ ಕ) ಆನಂದಕೆಂದ ಡ) ಕಡತೀರದ ಭಾರ್ಗವ 14. ಹೊಳೆಗೆ ಮತ್ತು ಮಳಿಗೆ ಆಗ್ಯೆದ ಲಗ್ನ ಇದು ಯಾವ ಕವನದ ಸಾಲು ಅ) ರೋಟ್ಟಿ ಮತ್ತು ಕೋವಿ ಬ) ಬೆಲ್ಟೀಯ ಹಾಡು ಕ) ಶ್ರಾವಣ ಡ) ಎಲ್ಲಾ ಹುಡುಗಿಯರ ಕನಸು 15. ಭಗವಂತ ಮಾನವರಿಗೆ ಕಾಣಿಸಿಕೊಂಡರೆ ಮೊದಲು ಅನ್ನದ ರೂಪದಲ್ಲಿ ಕಾಣಿಸಿಕೊಳ್ಳಬೇಕು ಎಂದು ಹೇಳಿದವರು. ಅ) ವಿಶ್ರೇಶ್ವರಯ್ಯ ಬ) ಕುವೆಂಪು ಕ) ಲಾ.ಬ. ಶಾಸ್ತ್ರಿ ಡ) ಗಾಂಧೀಜಿ 16. ಹಿಂದುಳಿದ ವರ್ಗಗಳಿಗೆ ಸರಕಾರಿ ಕೆಲಸಗಳಲ್ಲಿ ಮೀಸಲಾತಿ ನೀಡಲು ನಾಲ್ವಡಿ ಕೃಷ್ಣರಾಜ ಒಡೆಯರು ರಚಿಸಿದ ಆಯೋಗ ಅ) ಹಾವನೂರು ಆಯೋಗ ಬ) ವೆಂಕಟಸ್ವಾಮಿ ಆಯೋಗ ಕ) ನಾಲ್ಕಡಿ ಆಯೋಗ ಡ) ಮಿಲರ್ ಆಯೋಗ 17. ಶಿವರಾಮ ಕಾರಂತರಿಗೆ ಜ್ಞಾನಪೀಠ ಪ್ರಶಸ್ತಿ ತಂದುಕೊಟ್ಟ ಕೃತಿ ಅ) ಚೋಮನ ದುಡಿ ಬ) ಮರಳಿ ಮಣ್ಣಿಗೆ ಕ) ಮೂಕಜ್ಪಿಯ ಕನಸುಗಳು ಡ) ಹುಚ್ಚ ಮನಸಿನ ಹತ್ತು ಮುಖಗಳು 18. ಕುವೆಂಪುರವರು ಅಣ್ಣಪ್ಪನನ್ನು ಹೀಗೆಂದಿದ್ದಾರೆ ಅ) ಹಾಸ್ಯಗಾರ — – ಜ) ನಗೆಗಾರ ಕ) ಗೇಣೆದಾರ ಡ) ಕೂಲಿಕಾರ 19. ಪಿ. ಲಂಕೇಶರ ಈ ಕೃತಿಗೆ ಕೇಂದ್ರ ಸಾಹಿತ್ಯ ಅಕಾಡೆಮಿ ಪ್ರಶಸ್ತಿ ಬಂದಿದೆ. ಅ) ಗುಣಮುಖ ಬ) ಸಂಕ್ರಾಂತಿ ಕ) ಕಲ್ಲು ಕರಗುವ ಸಮಯ ಡ) ಹುಳಿನೆನವು. 20. ಎಲ್ಲಾರಂಥವನಲ್ಲ ನನ್ನಗಂಡ – ಎಂದು ಹಾಡಿದ ಸಂತ ಅ) ಅಕ್ಕ ಮಹಾದೇವಿ ಬ) ಶಿಶುನಾಳ ಶರೀಫ ಕ) ಬಸವಣ್ಣ ಡ) ಸರ್ವಜ್ಞ.

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- 21. ಪರಿಸರದ ಕತೆಯ ಲೇಖಕರು ಅ) ಬಿ.ಜಿ. ಎಲ್ ಸ್ವಾಮಿ ಬ) ಕುವೆಂಪು ಬೇಂದ್ರೆ ಕ) ಬೇಂದ್ರೆ ಡ) ಪೂರ್ಣಚಂದ್ರ ತೇಜಸ್ವಿ
- 22. "ಗಾಂಧಿ" ಕಥೆಗಾರ ಅ) ಬೆಸಗರಹಳ್ಳಿ ರಾಮಣ್ಣ ಬ) ಪಿ. ಲಂಕೇಶ ಕ) ಯೂ. ಆರ್. ಆನಮತಮೂರ್ತಿ ಡ) ಕುವೆಂಪು
- 23. ಸಾವಿರಾರು ನದಿಗಳು ಕವನ ಸಂಕಲದ ಕವಿ ಅ) ಸು. ರಂ. ಎಕ್ಕುಂಡಿ ಹ) ಕೆ.ಎಸ್. ನಿಸಾರ್ ಅಹಮದ್ ಕ) ಸಿದ್ದಲಿಂಗಯ್ಯ ಡ) ಬೇಂದ್ರೆ.
- 24. ವಿಶ್ವಾಮಿತ್ರನನ್ನು ಗೊರೂರು ಹೀಗೆಂದು ಕರೆದಿದ್ದಾರೆ. ಅ) ಕ್ರಾಂತಿಕಾರ ಬ)ಸೃಷ್ಠಿಕಾರ ಕ) ಸಮಗಾರ ಡ) ಯವೂದೂ ಅಲ್ಲ.
- 25. "ನೀರು" ಕಥೆ ಈ ನದಿ ವಿವಾದದ ಬಗ್ಗೆ ಅರಿವೂ ಮಾಡಿಸುತ್ತದೆ.
   ಅ)ಮಹಾದಾಯಿ ಬ) ಭೀಮ ಕ) ಕಾವೇರಿ ಡ) ನೇತ್ರಾವತಿ.
- 26. ಮೈಸುರೂ ರಾಜ್ಯಕ್ಕೆ ಕರ್ನಾಟಕ ಎಂದು ನಾಮಕರಣ ಮಾಡಿದ ವರ್ಷ

   ಅ)1956
   ಬ) 1971

   ₹) 1975
   ಡ) 1973.
- 27. ಮೆಲ್ಲಮೆಲ್ಲನೆ ಇದು ಅ)ದ್ವಿರುಕ್ತಿ ಬ)ಬೋಡುನುಡಿ ಕ) ಅನುಕರಣ ಅವ್ಯಯ ಡ) ಯಾವುದು ಅಲ್ಲ
- 28. "ಮಕ್ಕಳು ಮರಿ" ಇದು ಅ) ದ್ವಿರುಕ್ತಿ ಬ) ಪ್ರತ್ಯಯ ರೂಪ ಕ) ಜೋಡುನುಡಿ ಡ) ಅನುಕರಣ ಪದ
- 29. ಗಳಗಳನೆ ಇದು ಅ) ಅನುದರಣ ಅವ್ಯಯ ಬ) ದ್ವಿರುಕ್ತಿ ಕ)ಜೋಡುನುಡೆ ಪದ ಡ) ಸಂಭಾಂಧ ವಾಚದ ಪದ
- 30. ಆಕಾಶ ಇದರ ತತ್ಭವ ರೂಪ

   ಅ) ಆಗಸ
   ಬ) ಅಗಸ
   ಕ) ಆಕಾಶ
   ಡ) ಆಗಾಸ.

\* \* \* \* \* Ver - D 4 of 4

	GBGS S	CHEME		17KKK39/49				
USN			Question Pa	per Version : B				
	Third/Fourth Semester B.E. Degr Kannac		ition, June	e/July 2019				
	(COMMON TO A	LL BRANC	HES)					
Time:	e: 2 hrs.]		A	x. Marks: 30				
	<b>INSTRUCTIONS</b> 7	FO THE CAR						
	INSTRUCTIONS	IO THE CAP	NDIDATES					
<u>1</u> .	Answer all the thirty questions, each qu	Answer all the thirty questions, each question carries ONE mark.						
2.	Use only Black ball point pen for writi	Use only Black ball point pen for writing / darkening the circles.						
3.	For each question, after selecting your answer, darken the appropriate circle							
	corresponding to the same question n	umber on the	OMR sheet					
4.								
5.	Damaging/overwriting, use of whit	teners on the	oMR sh	eets is strictly				
	prohibited.			, i i i i i i i i i i i i i i i i i i i				
	4							
			A					
	Note : Fill in the blank choosing the right	ht word from th	e group belo	w :				
1.		) Iddale	d) Iddi					
	u) rudure		u) Iuu					
	Note : Translate the following Kannada question into English.							
	[from question No. 2 to 3]							
2.		) That book is g	ood.					
		) Her book is ba						
3.	50	) I got up in the	morning					
		- Bor up in the	and a stating.					
		) He woke up lat	te.					

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Note : Fill in the blank by translating the given English word to Kannada. [From Question No : 4 to 8]

<mark>4</mark> .	Country: a) Desha	b) Vesha	c) Rajya	d) Taluk
5.	Girl:a) Huduga	b) Ganda	S) C) Hudugi	d) Badagi
6.	Mother: a) Tande	b) Tayi	c) Magalu	d) Hendati
7.	Circular: a) Chowka	b) Aayatha	c) Vrittakara	d) Udda
8.	Gold:	b) Belli	c) Vajra	d) Havala
	Note : Transl [ from Q No.	ate the following En 9 to 13]	glish words to Kannada	Ş
9.	Curd: a) Majjige	b) Anna	c) Sambar	d) Mosaru
10.	Grass: a) Hullu	b) Hallu	c) Bellu	d) Mullu
11	, To laugh: a)Hogu	b) Nagu	c) Bidu	d) Magu
12	. Hot water: a) Tanneru	b) Bella	c) Bisi neeru	d) Hasiru
13	a) Paata	b) Nota	c) Parisara	d) Jagala
	¢.	đ I	Ver-B 2 of 4	

Note : Substitute the words from the following each sentence in appropriate place. [From Q No. 14 to 16]

14	Doctor Aushadi	(kodu)					
14.	a) Heltare	b) Kottaru	c) Sigtare	d) Kelu			
15.	Leela ivattu bengal	urige (Hogi	u)	And the second s			
	a) Hoguttane		c) ide	d) Howdu			
16.	TV tale novu						
	a) Odidare	b) Kelidre	c) Nodidre	d) Idre			
	Note : Translate th		ato Daglish				
	[From Q No. 17 to	1e Kannada word ii 26]	nto English.				
17.	Maralu:						
1 / •	a) Land	b) Sand	c) People	d) Bank			
				Z.			
18.	Samparka:			<u>_</u>			
	a) Run	b) Father	c) Contact	d) Doubt			
19.	Hatti:		· Anto	ř.			
	a) Cotton	b) Bread	c) Jar	d) King			
•	D						
20.	Parisara:a) Daily	b) Class	c) Duty	d) Environment			
	u) 12 milj		c) Duty	d) Environment			
21.	Tota:						
	a) Tall	b) Strong	c) Garden	d) Like			
22.	Jwara:						
	a) Meal	b) Fever	c) Gruel	d) Month			
23.	Raita:						
	a) Thieves	b) Grass	c) Farmer	d) Field			
		,	Ver-B 3 of 4				

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