

USN												BCO402
-----	--	--	--	--	--	--	--	--	--	--	--	--------

Fourth Semester B.E./B.Tech. Degree Supplementary Examination, June/July 2024

Analysis and Design of Algorithms

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module. 2. M: Marks, L: Bloom's level, C: Course outcomes.

		Modulé – 1	M	L	C
Q.1	a.	What is an algorithm? What are the fundamentals of algorithm problem	10	L2	CO2
		solving?			
	b.	Explain the asymptotic notations.	10	L2	CO ₂
	1	OR			
Q.2	a.	Explain the general plan of mathematical analysis of recurrence algorithm	10	L2	CO3
Q.2	a.	with example.	10		COS
	b.	Explain the general framework for analyzing the efficiency of algorithm.	10	L2	CO3
		Module – 2			
Q.3	a.	What is Exhaustive search? Explain the knapsack problem using exhaustive	10	L2	CO3
		search.			
	b.	What is the general plan for divide and conquer? Explain merge sort	10	L3	CO4
		algorithm apply the algorithm for the given elements 8, 3, 2, 9, 7, 1, 5, 4.			
	_	OR OR			
Q.4	a.	Write the algorithm for Quick sort with an example. What is the time complexity of quick sort?	10	L1	CO3
	b.	Explain the Strassen's matrix multiplication, with an example.	10	L3	CO3
		Madula 2	0		
Q.5	a.	What is AVL tree? Explain the rotation types of AVL tree.	10	L1	CO3
Ψ.υ	-	The state of the s	10		005
	b.	What is heap? Explain the algorithm for heapsort.	10	L2	CO ₃
0.6	T	OR .	40		~~.
Q.6	a.	Explain sorting by comparision counting algorithm. Apply the algorithm for the array 62, 31, 84, 96, 19, 47.	10	L3	CO4
	b.	Explain Horspool algorithm. Apply it for the following string	10	L2	CO4
		$SoCS_{n-1}$			
		JIM_SAW_ME_IN_A_BARBER_SHOP			
		Pattern: To be searched is <u>BARBER</u> .			
		413			
		1 of 2			

	*****************			ВС	CO402
0 -	1.	Module – 4			
Q.7	a.	Apply the Dijkstra algorithm for the following graph:	10	L2	CO4
	-	Source vertex is ①		5	
	b.	Find the shortest path between every two nodes by Floyd's algorithm. OR	10	L2	CO4
Q.8	a.	Apply the prims algorithm for the following graph and find minimum spanning tree.	10	L3	CO4
	b.	What is dynamic programming? Explain the coin row algorithm. Apply it for the problem: coin row of denominations 5, 1, 2, 10, 6, 2.	10	L3	CO4
		19			
Q.9	a.	What is Decision Tree? Write a Decision Tree for finding a minimum of three numbers and explain it.	10	L1	CO3
	b.	Explain the terms, P, NP and NP complete problems.	10	L2	CO3
Q.10		OR What is Packtrocking? Evaluin the N. O	40		~~-
Q.10	a.	What is Backtracking? Explain the N-Queen problem with a board for the four Queens problem.	10	L2	CO3
	b.	Explain the knapsack using branch and bound. Apply the algorithm for the following data:	10	L3	CO5



USN												BCS403
-----	--	--	--	--	--	--	--	--	--	--	--	--------

Fourth Semester B.E./B.Tech. Degree Supplementary Examination, June/July 2024

Database Management System

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module. 2. M: Marks, L: Bloom's level, C: Course outcomes.

			N.T.	_	<u> </u>
0.1	T	Module - 1	M 8	L	CO1
Q.1	a.	What is DBMS? List the characteristics of database approach. Bring out major advantages of the database approach.	8	L2	CO1
	b.	Explain data independence. Draw 3 schema architecture and discuss the mapping.	7	L2	CO1
	c.	Define following: i) Database Administrator ii) Canned transaction iii) Weak entity iv) Meta data v) Database Instance.	5	L2	CO1
		OR			601
Q.2	a.	Describe components modules of DBMS and its interaction with neat diagram.	8	L2	CO1
	b.	Draw ER diagram of library database schema atleast 4 entities. Also specify primary keys, structural constraints and explain.	8	L3	CO2
	c.	Briefly discuss different types of end users of Database.	4	L2	CO2
		Module – 2		,	
Q.3	a.	Briefly explain different types of update operation on relation database. Show an example of violation of referential and entity integrity in each of update operation.	10	L2	CO3
	b.	Consider following schema: Suppliers (SID, SName, address) Parts (PID, PName, Colour) Catalog (Sid, PID, Price) Write relational algebra expression for following queries: i) Find the names of all red parts. ii) Find all prices for parts that were red or green. iii) Find the SID's of all suppliers who supply part that is red or green. iv) Find the SID's of all supplier who supply part that is red and green.	10	L3	CO2
		OR			T
Q.4	a.	Describe the steps of ER – to – relational mapping with suitable examples and schema for each step.	10	L2	CO2
	b.	Explain with example: i) Division operation ii) Full outer join iii) Aggregate function iv) Project operation v) Cartesian product.	10	L2	CO2

		Module – 3			
Q.5	a.	What is the need for normalization? Explain 2 nd normal form. Consider the relation EMP_PROJ = {SSn, Pnumber, Hours, Ename, Pname, Plocation}. Assume {SSn, Pnumber} as a primary key. The dependencies are	10	L3	CO4
		SSn; Pnumber \rightarrow {Hours} SSn \rightarrow {Ename}			
		Pnumber → {Pname, Plocation}, Normalize above relation into 2NF.			
	b.	Illustrate the informal design guidelines for relation schemes with examples.	10	L2	CO4
		OR			
Q.6	a.	Write syntax with example in SQL for the DDL and DML SQL statements.	10	L2	CO3
	b.	Consider the schema for college database. Student (USN, Sname, Address, Phone, Gender) SemSec (SSID, Sem, Sec)	10	L3	CO3
		Class (USN, SSID) Subject (Subcode, Title, Sem, Credits) IAmarks (USN, Subcode, SSID, Test1, Test2, Test3, Final IA)			
		 Write SQL Query. i) List all the students studying in 4th sem 'C' section. ii) Compute total number of male students in each semester. 			
		iii) List Test1 marks of all students in all subjects.			
		6 0/12			0.0
	1	Module – 4	10		~~ 1
Q. 7	a.	How are triggers and assertion defined in SQL? Explain with example.	10	L2	CO4
	b.	Write the syntax and example of view in SQL. Explain efficient view implementation.	10	L2	CO4
		OR			
Q.8	a.	List the problems that occur during concurrency control and also explain them with supporting transaction diagrams.	10	L2	CO5
	b.	Explain the various DBMS – Specific Buffer replacement policies.	10	L2	CO5
	4=	Module – 5		т	
Q.9	a.	Demonstrate with example deadlock in transaction. Discuss deadlock prevention algorithm.	10	L2	CO5
ff. 1200 W. 200	b.	What are Binary locks? Explain with Lock and unlock operations with algorithm.	10	L2	CO5
		OR			
Q.10	Wı i) iii)	rite a short note on : Properties of NOSQL system Document based NO – SQL system ii) The CAP theorem iv) NOSQL Graph database.	20	L2	CO4
		* * * * *			



CBCS SCHEME

USN					BCS405A
				1	

Fourth Semester B.E./B.Tech. Degree Supplementary Examination, June/July 2024

Discrete Mathematical Structures

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M: Marks, L: Bloom's level, C: Course outcomes.

		Module – 1	M	L	C
Q.1	a.	Define Tautology. Show that $[(p \lor q) \land (p \to r) \land (q \to r)] \to r$ is a tautology by constructing the truth table.	6	L1	CO1
	b.	Prove the following using the laws of logic: $P \rightarrow (q \rightarrow r) \Leftrightarrow (p \land q) \rightarrow r$	7	L2	CO1
	c.	Give i) Direct proof ii) indirect proof iii) proof by contradiction for the following statement: "If n is an odd integer then n + 9 is an even integer".	7	L3	CO1
		OR	6	L2	CO1
Q.2	a.	Test whether the following arguments are valid: $p \rightarrow q$ $r \rightarrow s$ $\frac{\sim q \vee \sim s}{\therefore \sim (p \land r)}$			
	b.	Write the following argument in symbolic form and then establish the validity. If a triangle has two equal sides, then it is isosceles. If a triangle is isosceles, then it has two equal angles. The triangle ABC does not have two equal angles. ABC does not have two equal sides.	7	L1	CO1
	c.	For the following statements, the universe comprises all non-zero integers. Determine the truth value of each statement: i) $\exists x \exists y [xy = 1]$ ii) $\exists x \forall y [xy = 1]$ iii) $\forall x \exists y [xy = 1]$ iv) $\exists x \exists y [(2x + y = 5) \land (x - 3y = -8)]$ v) $\exists x \exists y [(3x - y = 7) \land (2x + 4y = 3)]$	7	L2	CO1
		Module – 2			
Q.3	a.	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	6	L2	CO2
		1 of 3			,

			F	BCS4	105A
	b.	Prove that every positive integer $n \ge 24$ can be written as a sum of 5's and / or 7's.	7	L3	CO2
	c.	Obtain a recursive definition for the sequence $\{a_n\}$ in each of the following cases: i) $a_n = 5n$ ii) $a_n = 3n + 7$ iii) $a_n = 2 - (-1)^n$	7	L3	°C02
		OR C			
Q.4	a.	Prove that for any positive integer n , $\sum_{i=1}^{n} \frac{F_{i-1}}{2^i} = 1 - \frac{F_{n+2}}{2^n}$, F_n denote the fibonacci number.	6	L2	CO2
	b.	How many arrangement are there for all the letters in the word "SOCIOLOGICAL". In how many of these arrangements. i) A and G are adjacent ii) All vowels are adjacent.	7	L2	CO2
v	c.	Determine the coefficient of $a^2b^3c^2d^5$ in the expansion of $(a+2b-3c+2d+5)^{16}$.	7	L2	CO2
		Module -3	6	L2	CO3
Q.5	a.	Let $A = \{1, 2, 3, 4, 6\}$ and R be a relation on A defined by a^Rb if and only if "a is a multiple of b". Write down the relation R, relation matrix M(R) and draw its digraph. List out its indegree and out degree.	6	LZ	
	b.	Let f and g be functions from R to R defined by $f(x) = ax + b$ and $g(x) = 1 - x + x^2$. If $(gof)(x) = 9x^2 - 9x + 3$ determine a and b.	7	L3	CO
	c.	State Pigeon hole principle. Show that if $n + 1$ numbers are chosen from 1	7	L2	CO
		to 2n then at least one pair add to $2n + 1$.			
		OR	6	L1	CO
Q.6	a.	Let $f: R \to R$ be defined by $f(x) = \begin{cases} 3x - 5, & \text{if } x > 0 \\ 1 - 3x, & \text{if } x \le 0 \end{cases}$ find $f(-1)$, $f(5/3)$, $f^{1}(0)$, $f^{1}(-3)$, $f^{1}([-5, 5])$ and $f^{1}([-6, 5])$.			
	b	Let f, g, h be functions from Z to Z defined by $f(x) = x - 1$, $g(x) = 3x$, $h(x) = \begin{cases} 0, & \text{if } x \text{ is even} \\ 1, & \text{if } x \text{ is odd} \end{cases}$ Determine $(fo(goh))(x)$, $((fog)oh)(x)$ and verify that $fo(goh) = (fog)oh$.	7	L2	CO
	c.	DOGET Linear which represents positive divisors of 36	7	L2	CO
		Module – 4			
Q.7	a	I I I I I I I I I I I I I I I I I I I	6	L3	CO
		2 of 3			4

				BCS	405A
ŷ ·	b.	Four persons P_1 , P_2 , P_3 , P_4 who arrive late for a dinner party find that only one chair at each of five tables T_1 , T_2 , T_3 , T_4 and T_5 is vacant. P_1 will not sit at T_1 or T_2 , P_2 will not sit at T_2 , P_3 will not sit at T_3 or T_4 and P_4 will not sit at T_4 or T_5 . Find the number of ways they can occupy the vacant chairs.	7	L2	CO4
	c.	Solve the recurrence relation $a_n = na_{n-1}$ where $n \ge 1$ and $a_0 = 1$.	7	L2	CO4
		OR			
Q.8	a.	In how many ways can the 26 letters of the English alphabet be permuted so that none of the patterns CAR, DOG, PUN or BYTE occurs?	6	L2	CO4
	b.	Find the rook polynomial for the 3 * 3 board by using the expansion formula.	7	L2	CO4
	c.	Solve the recurrence relation $F_{n+2} = F_{n+1} + F_n$ where $n \ge 0$ and $F_0 = 0$, $F_1 = 1$.	7	L2	CO4
		Module – 5			1
Q.9	a.	Define Group. Show that fourth roots of unity is an abelian group under ⊗.	6	L2	CO5
	b.	Define Klein 4 group. Verify $A = \{1, 3, 5, 7\}$ is a Klein 4 group under \otimes_8 .	7	L2	CO5
	c.	State and prove Lagrange's theorem.	7	L2	COS
		OR			
Q.10	a.	If H, K are subgroups of a group G, prove that $H \cap K$ is also a subgroup of G. Is $H \cup K$ a subgroup of G?	6	L2	CO5
	b.	Define cyclic group and show that $(G, *)$ whose multiplication table is as given below is cyclic.	7	L2	CO5
	c.	Prove that the only left coset of a subgroup H of a group G which is also a subgroup of G is H itself.	7	L2	COS

* * * *



USN B

Fourth Semester B.E./B.Tech. Degree Supplementary Examination, June/July 2024

Biology for Engineers (CSE)

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M: Marks, L: Bloom's level, C: Course outcomes.

		Module – 1	M	L	C
Q.1	a.	Explain the structure and function of power house of cell and Endoplasmic	10	L2	CO1
Ų.1	a.	reticulum with neat diagram.		112	COI
s	b.	What are stem cells? Explain the properties classification and application of stem cells.	10	L1	CO1
		OR			
Q.2	a.	Explain the structures properties and function of nucleic acid focusing on DNA.	10	L2	CO1
	b.	Define Vitamins. Explain the properties, function, source and deficiency of	10	L1	CO1
		vitamins.			=
		Module – 2			
Q.3	a.	Illustrate the steps involved in biodiesel production. Add a note principle and limitation of biodiesel.	10	L2	CO2
	b.	Develop the protocol for PLA polymer synthesis. Add a note on	10	L3	CO2
		engineering application of PLA.			
		OR			
Q.4	a.	Define Biosensor. Outline the principle, working and application of enzyme in glucose biosensor.	10	L2	CO2
3	b.	Construct the procedure for the production of RNA vaccines against Covid-19. Add a note on how RNA vaccines different from DNA vaccines.	10	L3	CO2
	.43	Module – 3			
Q.5	a.	Compare and contract brain as CPU system and eye as a camera.	10	L2	CO3
	b.	Explain the mechanism of filtration in Human Kidney.	10	L2	CO3
	-	OR			
Q.6	a.	Write in detail Heart Lung Machine.	10	L2	CO3
	b.	Explain how lung act as purification system. Add a note on principle and working of spirometry as a diagnostic tool for assessing lung function.	10	L2	CO3
*		1 of 2			.c

					C40′
		Module – 4			
Q.7	a.	Apply the concept of bioecholocation in the field of Navigation and detection. Write the principle, working and instrumentation and application of the technique.	10	L3	CO
	b.	HBOCs and PFCs act as human blood substitutes. Explain.	10	L4	CO
		OR			
Q.8	a.	Identify and explain the process, application of technique involved in conversion of light energy into electric energy.	10	L3	CO
	b.	Velcro and friction less swimsuits are the nature bioinspired material. Explain the principle and engineering application of the technology.	10	L4	CO
		Module – 5			l
Q.9	a.	Apply the process of biomining via microbial surface adsorption for the removal of heavy metals.	10	L3	CO
	b.	Analyze the principle, working and instrumentation of e-tongue, highlighting its application in food and beverage industries.	10	L4	CO
		OR		l	
Q.10	a.	Develop the steps for 3D printing of skin. Highlight on materials used and application of 3D skin.	10	L3	CO
	b.	Bio imaging and artificial intelligence technique plays important role in	10	L4	CO
		disease diagnosis. Explain the concept and add a note on its limitation.			
		****	L		
			٠		
		46			
	,6	3 19			
	4				
ě	Ę				
d	4				
ě	4				
ě	4				
d	4				
ä	4				
ě					
d	1				
ä		2 of 2			
ė		2 of 2			
d		Develop the steps for 3D printing of skin. Highlight on materials used and application of 3D skin. Bio imaging and artificial intelligence technique plays important role in disease diagnosis. Explain the concept and add a note on its limitation.			

BUHK408

USN							Question Paper Version:	A
0011		 N	The same of the same	2000	-1			

Fo	ourth Semester B.E./B.Tech. Degree Supplementary Examination, June/July 2024
	Universal Human Values
Time:	1 hr.] [Max. Marks: 50
	INSTRUCTIONS TO THE CANDIDATES
1.	Answer all the fifty 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.	Value education addresses issues related to a) How to do b) What to do c) Both a and b d) None of these
2.	The understanding of one's participation in the larger order and ensuring it in Living is called a) Skill Education b) Value Education c) Hollistic Education d) None of these
3.	Which among the statement is not an implication of self exploration? a) Knowing oneself b) Knowing Human conduct c) Process of self evolution d) Not being in harmony within
4.	Right understanding can be recognized with a) It is assuring b) It is satisfying c) Its Universal d) All of these
5.	 Which of the following is NOT a component of fulfilling human aspirations? a) Right understanding b) Accumulating material wealth c) Relationship and harmony d) Physical facility

- 6. Holistic development involves the transformation from
 - a) Human consciousness to Animal consciousness
 - b) Ignorance to knowledge
 - c) Animal consciousness to Human consciousness
 - d) Materialism to Spirituality

7.	The purpose of value education is to			
/•	a) Foster universal core values	h)	Make the syllabus	easy
	c) Develop values in individuals		Both a and c	casy
	o) Develop values in marviaums	4)		
8.	The continuity of prosperity can be ensured	lon	ly if our production	system is in harmony
	with the	<		
	a) Individual b) Society	c)	World	d) Nature
9.	Self exploration uses two mechanism – Natu	ıral	Acceptance and	A 139
<i>)</i> .	a) Experimental validation	b)	Reason	
	c) Logical thinking	d)		pts
		,		
10.	Right understanding + Physical facilities in			
	a) Mutual property	,	Mutual happiness	
	c) Mutual fulfillment	d)	Mutual benefit	
11.	What Quality is the significance of relations	hip	building in value ed	ducation?
	a) Relationships are a distraction and hinder	-		
	b) Relationships are solely based on materia			
	c) Healthy relationships promote emotional	we	ll – being and empa	thy
	d) None of these	SABY C		
12	Dagida shusiaal facilities Human bahasa waa	a+		
12.	Beside physical facilities Human beings war a) Name b) Fame		Relationship	d) None of these
	a) Name b) Tame	<i>c</i>	Relationship	d) None of these
13.	Which of the characteristics does not relate to	to s	elf?	Ĉ.
	a) Qualitative b) Continuous	c)	Temporary	d) Quantitative
14.	Which of the response is common to both Se	alf d	and Rody?	
14.	a) Knowing b) Accepting	THE PERSON	Recognizing	d) Assuming
	a) Rhowing b) Recepting		Recognizing	a) rissuming
15.	Activities like desiring, thinking, imaginary	are	of the	
	a) I b) Body	c)	Self	d) Me
16.	How are the needs of the body and self distinguished the self distinguished the self-distinguished the self-distin	nau	iched?	
10.	a) They are the same	ngu	isited!	
	b) They are unrelated		-	
	c) They must be fulfilled simultaneously			
d	d) They need to be fulfilled separately	Tage of		
17.	What term is used to describe the act	ıvıt	ies of desire, thou	ught and expectation
	collectively?	a)	Doolity	d) Instinct
	a) Imagination b) Intuition	0)	Reality	d) Instinct
18.	What is the relationship between the Body a	nd	Self?	
	a) Body dominates the self	b)	Self dominates boo	dy
	c) Body is an instrument of the self	d)	Body and self are	separate entities
19.	What angures harmony between the Calford	D.	Av2	
IJ,	What ensures harmony between the Self and a) Competition		Self regulation and	health
	c) Ignoring bodily needs		Constant desire ful	
	o) ibiioinib oodiiy needs	uj	Constant desire ful	i i i i i i i i i i i i i i i i i i i

20.	There is an exchange a) Food	of between self b) Thought		l body. Air	d)	Information
21.	What amongst the op a) Seer	tion is not said by the c b) Doer		ciousness? Experiencer	d)	Protector
22.	Sah – Astitva means a) Co-existence	b) Co-operation	c)	Co-option	d)	Corporate identity
23.	Harmony in the self is a) Material possession c) Social Norms	s achieved when imagi		on is aligned with Natural Acceptanc Random Ideas	e	
24.	Acceptance of exceller a) Reverence	ence in others is called b) Gratitude	c)	Guidance	d)	Glory
25.	What is activity of the a) Imaging	e power "Expectation" b) Analysing		Selecting/Testing	d)	Distributing
26.	Living on the basis of a) Enslaved	f preconditioning or set b) Self organized			d)	Svantrata
27.	Which values serves a) Trust	as the foundational pill b) Ambition		f a strong relationsh Competition		n the Family? Material wealth
28.	Which one is known a) Material order	as Pranic order? b) Plant/Bio order	c)	Human order	d)	Animal order
29.	a) It promotes compb) It fosters a sensec) It isolates individual	n the family contribute etition and rivalry amo of co-operation and sta uals from society sregard for societal no	ng bili	family members by in the community		
30.	There is among a) Recyclability c) Inter connectedne		b) d)	Justice Conformance		
31.	Which one is limited a) Space	in size? b) Values	c)	Unit	d)	All of these
32.	The basis for moveme a) Animal order	ent of all animal, birds b) Material order		d fishes is provided Plant/Bio order	-	Human order
33.	c) (Composition / Dd) (Composition / D		tior tior	a) in body + Selection b) in Body + (Selection		

34.	The relationship across all 3 order are in the order of a) Material order, Plant / Bio order, Animal order b) Plant/Bio order, Animal order, Human order c) Animal order, Plant / Bio order, Human order d) Human order, Plant / Bio order, Animal order								
35.	Right utilization of one's professional skills towards the fulfillment comprehensive								
	human goals and thus meaningfully participate in the larger order refers to								
	a) Profession b) Unprofessional								
	c) Unethical conduct d) Ethical conduct of profession								
36.	What is the basis of mutual fulfillment among the 4 orders of nature?								
	a) Dominance and control								
	b) Competition for resources								
	c) Right utilization and understanding								
	d) Indifference towards other orders								
27	Commetence in Dus ferrious Lethics needs								
37.	Competence in Professional ethics needs. a) Clarity about comprehensive Human goals								
	, 1								
	d) All of these								
38.	Developing in the individuals (professionals) is the only effective way to ensure								
	professional ethics.								
	a) Ethics b) Professional c) Competence d) Ethical competence								
	, ————————————————————————————————————								
39.	Broad holistic criteria of evaluation of technology is/are								
	a) Catering to appropriate needs and lifestyles								
	b) People friendly								
	c) Eco friendly d) All of these								
4.0									
40.	What doe profession imply in relation to the larger order?								
	a) Isolation from society and nature								
	b) Participation in the comprehensive Human goal								
	c) Maximization of personal benefits								
1	d) Pursuit of economic profits.								
41.	What is the main emphasis of holistic development?								
т1,	a) Economic prosperity								
	b) Spiritual enlightenment								
	c) Scientific enlightenment								
	d) Shift from inhuman to humane society								
	a) Shift from inflament to humane society								
42.	How can the urgency of the transformation be addressed?								
	a) Ignoring the need for change								
	b) Introducing punitive measures								
	c) Implementing mass – scale value education								
	d) Focusing solely on technological advancements.								

43.	 What is the role of value competence in ethical professional conduct? a) Promoting competition b) Aligning actions with societal norms c) Guiding actions with comprehensive human goals d) Focusing on personal achievements.
44.	The concept of :Humanistic Constitution" in professional ethic refers to a) A set of rigid rules and regulations for professional conduct b) Neglecting the well – being of individuals in the workplace c) Ignoring the impact of ethical decisions on society d) Recognizing the importance of Human values and dignity in professional settings.
45.	What is the basis for ethical Human conduct? a) Definiteness of values and character c) Economic motives b) Fear of punishment d) Social pressure
46.	What is the role of R & D in the context of holistic technologies and systems? a) Promote profit maximization b) Focus on individual success c) Encourage competition d) Develop systems aligned with right understanding.
47.	What should professionals be sensitive towards in their interactions? a) Individual success b) Mutual enrichment c) Technological advancements d) Financial gain
48.	What is the main driver behind unethical practices in professions? a) Lack of technological advancement b) Neglecting comprehensive human goal c) Societal pressure d) Personal satisfaction
49.	is called foundation value. a) Respect b) Affection c) Love d) Trust
50.	Feeling for those who have made effort for excellence is a) Excellence b) Reverence c) Glory d) None of these *****
	-A5-