

SRM Institute of Science and Technology College of Engineering and Technology School of Computing

Mode of Exam

OFFLINE

DEPARTMENT OF COMPUTING TECHNOLOGIES

SRM Nagar, Kattankulathur – 603203, Chengalpattu District, Tamil Nadu

Academic Year: 2024 - 2025 - Odd Semester

Test: CLAT 2 Batch 2 – Set C Date: 22.11.2024
Course Code & Title: 21GNH101J Philosophy of Engineering Year & Sem: I Year & I Sem Max. Marks: 35

Registration Number:

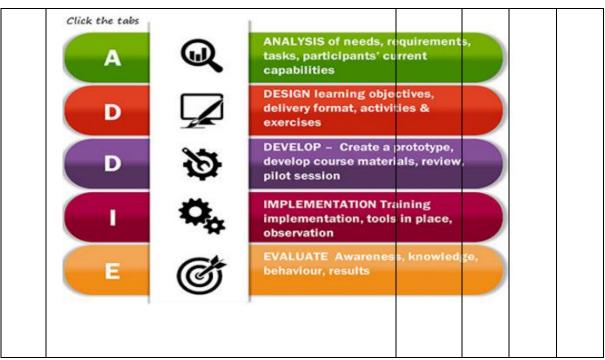
Part – A (10 * 1 = 10 Marks) Instructions: Answer all the Questions						
Q. No	Question	Marks	BL	СО	PO	
1	Holland's Theory describesnumber of basic personality types. a) 4 b) 5 c) 6 d) 7	1	1	3	1	
2	A division of epistemology which is crucial to develop scientific initiatives is called a) design epistemology b) planning epistemology c) activity epistemology d) timing epistemology	1	1	3	1	
3	In the context of engineering, what concept is used to derive final and verifiable rigor from apparently unsystematic and random intermediate steps? a) Abductive reasoning b) Critical design reviews c) Preliminary design reviews d) Analytical methodologies	1	1	3	1	
4	In which quadrant, basic sciences fall-engineer as a) Doer b) Sociologist c) Scientist d) Designer	1	1	3	1	
5	is creating new tools and devices. a) Engineering b) Science c) Physics d) Chemistry	1	1	3	1	
6	The prototype creation is involved in phase of Addie model. a) Evaluation phase b) Implementation phase c) Development phase d) Design phase	1	1	4	1	

				_	1 -
7	The course of action that is carried out for checking	1	1	4	1
	the stability of individual components and its design				
	is called				
	a) Integration testing				
	b) Derived testing				
	c) Unit testing				
	d) Recovery testing				
8	Why is it essential to research ideas and explore	1	1	4	1
0	· ·	1	1	7	_
	possibilities in the design process?				
	a) To delay the project				
	b) To avoid the problems faced by others				
	c) To reject potential solutions				
	d) To establish criteria and constraints.				
9	In ADDIE model, 'I' refers to	1	2	4	1
	a) Invoice				
	b) Implementation				
	c) Investment				
	d) Interest				
10	spin-offs or the variations of the "Addie	1	2	4	1
	Model"	-	_	_	1
	a) Addie model				
	b) Scientific model				
	,				
	c) Engineers model				
	d) Dick and Carey				
	Part – B				
	(1*10 = 10 Marks)				
	Instructions: Answer any ONE Qu		1	1	Ī
11	· · · · · · · · · · · · · · · · · · ·	estion 10	2	3	1
11	Instructions: Answer any ONE Qu		2	3	1
11	Instructions: Answer any ONE Qu Elaborate the holland's theory on personality		2	3	1
11	Instructions: Answer any ONE Qu Elaborate the holland's theory on personality types.		2	3	1
11	Instructions: Answer any ONE Que Elaborate the holland's theory on personality types. RIASEC Model		2	3	1
11	Instructions: Answer any ONE Que Elaborate the holland's theory on personality types. RIASEC Model Conventional Realistic		2	3	1
11	Instructions: Answer any ONE Que Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers Organizers One of the holland's theory on personality types. Realistic Doers		2	3	1
11	Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers C Realistic Doers Investigative		2	3	1
11	Instructions: Answer any ONE Que Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers C R		2	3	1
11	Instructions: Answer any ONE Questions Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers C R Investigative		2	3	1
11	Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers C Enterprising Persuaders Enterprising Persuaders Investigative Thinkers		2	3	1
11	Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers C Realistic Doers Investigative Thinkers		2	3	1
11	Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers C R Enterprising Persuaders Social Artistic		2	3	1
11	Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers C R Enterprising Persuaders Social Helpers Investigative Thinkers Creators		2	3	1
11	Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers C R Enterprising Persuaders Social Helpers Realistic Creators Realistic Creators Realistic Creators Realistic Creators Realistic: People who enjoy working with		2	3	1
11	Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers C R Enterprising Persuaders Social Helpers Creators Realistic Creators Realistic Creators Realistic: People who enjoy working with their hands, using tools, and engaging in		2	3	1
11	Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers C R Enterprising Persuaders Social Helpers Realistic Creators • Realistic: People who enjoy working with their hands, using tools, and engaging in physical activity. Careers in engineering,		2	3	1
11	Enterprising Persuaders Social Helpers Realistic: People who enjoy working with their hands, using tools, and engaging in physical activity. Careers in engineering, construction, or athletics are typical for this		2	3	1
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11	Elaborate the holland's theory on personality types. RIASEC Model Conventional Organizers C Enterprising Persuaders Social Helpers		2	3	1
11	Enterprising Persuaders Realistic: People who enjoy working with their hands, using tools, and engaging in physical activity. Careers in engineering, construction, or athletics are typical for this type. Instructions: Answer any ONE Questions: Answer and ONE Questions: Answer		2	3	1
11	Enterprising Persuaders Social Helpers Realistic: People who enjoy working with their hands, using tools, and engaging in physical activity. Careers in engineering, construction, or athletics are typical for this type. Investigative: Individuals who are analytical, curious, and enjoy solving complex problems. These people often thrive in science, research, and technical		2	3	1
11	Enterprising Persuaders Realistic: People who enjoy working with their hands, using tools, and engaging in physical activity. Careers in engineering, construction, or athletics are typical for this type. Investigative: Individuals who are analytical, curious, and enjoy solving complex problems. These people often thrive in science, research, and technical fields.		2	3	1
11	Enterprising Persuaders Social Helpers Realistic: People who enjoy working with their hands, using tools, and engaging in physical activity. Careers in engineering, construction, or athletics are typical for this type. Investigative: Individuals who are analytical, curious, and enjoy solving complex problems. These people often thrive in science, research, and technical fields. Artistic: Creative thinkers who express		2	3	1
11	Enterprising Persuaders Negalistic: People who enjoy working with their hands, using tools, and engaging in physical activity. Careers in engineering, construction, or athletics are typical for this type. Investigative: Individuals who are analytical, curious, and enjoy solving complex problems. These people often thrive in science, research, and technical fields. Artistic: Creative thinkers who express themselves through art, music, writing, or		2	3	1
11	Enterprising Persuaders Social Helpers Realistic: People who enjoy working with their hands, using tools, and engaging in physical activity. Careers in engineering, construction, or athletics are typical for this type. Investigative: Individuals who are analytical, curious, and enjoy solving complex problems. These people often thrive in science, research, and technical fields. Artistic: Creative thinkers who express		2	3	1

•	Social: Compassionate and helpful individuals who are drawn to teaching, counseling, or healthcare. Social types enjoy working with others and making a positive impact. Enterprising: These people are confident, persuasive, and like to lead. They often excel in business, sales, or management roles. Conventional: Detail-oriented individuals who enjoy structure and organization. Jobs in accounting, administration, or data management typically attract this type.				
descr diagr CDIC	Conceive: Defining Customer needs Considering technology Enterprise Strategy and regulations Developing Concepts, techniques and Business Plan In: Creating the design The plans, drawings and algorithms that describe what will be implemented ement: The transformation of design into the product, including manufacturing, coding, testing and validation	10	2	4	1

	technology,	customer need; Marke developing the con trategy and regulations an	cept, methodo				
	the compo	design which includes de onents, drawings, moc hat will describe what will	leling, analysis	ns of and			
		of the design into the political cluding manufacturing,		and and			
		ed product to deliver t aintaining, developing and					
	Instr	Part - (1* 15 = 1 cuctions: Answer	5 Marks)	uestion			
13		ignificance of		1	2	3	4
	dimensions of engine	_		4			•
	sciences, design and	_	*				
	How do they collect	ively shape the	role of an				
	engineer?						
	Solution						
	Four dimensions	0.50 0.50					
	 Engineering as a basic science Engineering as a Social and 						
	Engineering as Design	SOCIAL BAS	ar.				
	Engineering as Doing	SCIENCES SCIENC engineer as engineer as sociologist scientist	ES				
		engineer as designer doer PRACTIC DESIGN REALIZATIO	AL.				
	1. Engineering a	s a basic science					
	• Theory						
	• Model						
	Method Publications						
	Conferences						
	2. Engineering a	s a Social and Bu	ısiness				
	Activity						
	Negotiation						
	Team Value						
	value Customer						
	Market						
				1			

	 3. Engineering as Design Project System Integration 4. Engineering as Doing Product Service Masterpiece (ex-Palm Island) 	1			
14	Priya is a senior software engineer in a multinational company who works in a U.S. military project. She has chosen ADDIE model for her software development. Explain the ADDIE model with its phases and suggest your views of modifying the phases of the same model with reasons. Solution The ADDIE model is the generic process traditionally used by instructional designers and training developers.	15	2	4	4
	The five phases—Analysis, Design, Development, Implementation, and Evaluation— represent a dynamic, flexible guideline for building effective training and performance support tools. While perhaps the most common design model, there are a number of weaknesses to the ADDIE model which have led to a number of spin-offs or variations. It is an Instructional Systems Design (ISD) model Analysis > Design > Development >				
	Implementation > Evaluation Diagram				



Course Outcome (CO) and Bloom's level (BL) Coverage in Questions

