

## SRM Institute of Science and Technology, Vadapalani Campus, Chennai 600026 Faculty of Engineering and Technology

CYCLE TEST - 01 / JANUARY 2025

## 21GNH101J - Philosophy of Engineering (For I yr / 02 sem B.Tech: CSE(E.Tech), ECE and Mechanical)

Date: 31.01.2025 Duration: 45 min. Max.Marks:	25

						PI	ROGE	RAMI	ME (	OUTC	OME	S				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Analyze the relation between Arts, Mathematics		Engg knowledge	Problem analysis	Design and development	Analysis, design	Modern tool usage	Society & culture	Environment	Ethics	Individual & team work	Communication	Proj mgmt. & finance	Lifelong learning	PSO -1	PSO -2	PSO -3
CO-1	Science, Technology and Engineering and desired attributes of an engineer	1		-	3	-	1	-	1	3	3		3	-	-	-
CO-2	Build ontologies for systems engineering using concept/mind mapping techniques	3			3	3			-	3	3		3	-		-
CO-3	Analyze the knowledge base in engineering, distinctive features of engineering design and RIASEC model	3			3	-	-	-	-	3	3	-	3	-	-	
CO- <b>4</b>	Illustrate the engineering design process for the given application, analyze the requirements of CDIO engineers	3	1	3	3	3	-	-	-	3	3		3	-	-	
CO-5	Evaluate designs on their environmental and societal aspects and do organizational analysis on profession engineering organizations	3	3	3	3	-	3	3	3	3	3		3	-	-	-

## Part – $A(12 \times 1 = 12 \text{ Marks})$ Instructions: Answer All

Q.					
No.	Question	Marks	0		P
1 C	Identify the language from which the word philosophy is derived a) English b) Latin e) Greek d) Italian	1	1	1	
2	The earliest civil engineer is known by name a) Imhotep b) Djoser c) Acropolis d) Parthenon	1	1	1	1
3	The earliest roots of science can be traced to Ancient Egypt and Mesopotamia in around a) 2000 to 1000 BCE b) 3000 to 1200 BCE c) 1500 to 1200 BCE d) 2000 to 1200 BCE	1	1	1	1
4 C	The word can also be used to refer to a collection of techniques a) Science b) Engineering c) Technology d) Mathematics	1	1	2	1

1 -					
5 D	STEM education was introduced to increase the competitiveness in Science and Technology ina) Italyb) Francec) Germanb) United States	1		1	1 9
6 A	The primary intention of ITEA is to encourage educational curricula providing technological literacy to allstudents.  a) K-12 b) K-10 c) K-16 d) K-5	1	1	2	1
30	ITEA 2000 Standards consist of five major categories subdivided	1	1	1	9
8 A	The expansion of ITEA is  a) International Technology Education Association b) International Technical Education Association c) International Technology Education Awareness d) International Technology Education Alliance	1	1	1	1
9	The first steam engine was built in a) 1947 b) 1698 c) 1998 d) 1647	1	1	1	1
10	Engineering habits of mind were defined to incorporate "essential skills for citizens in the"  a)18 <sup>th</sup> century  b) 20 <sup>th</sup> century  c) 22 <sup>nd</sup> century	1	1	1	1
11	Which is one of the non-motivated functions of art?  a) Political commentary b) Expression of Imagination c) Entertainment d) Commercialism	1	1	2	1
12	Which is one of the desired attributes of an engineer?  a) Continuous Learning b) Lack of communication skills c) Inability d) Individual Work  •	1	1	1	10

	Part – B(1 x 8 = 8 Marks) Answer ALL questions				
13.a	How do engineers use teamwork, continuous learning, creativity, problem-solving, communication skills, logical thinking, attention to detail and leadership to establish the success of complicated projects in a changing technological landscape?		1	2	9
	OR				
13.b	Explain briefly on Non-Motivated functions of art.	8	1	2	10

	Part – C (1 x 5 = 5 Marks) Answer any ONE				
14	Explain in detail about the relationship between arts, mathematics,	5	1	2	9
	ecience technology and engineering.	-	1	2	10
15	Elaborate the history of mobile phone development at different era.		1		

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



