

Test: CLA-T1

Course Code & Title: 21GNH101J PHILOSOPHY OF ENGINEERING

Year & Sem: I Year / I Sem

Date: 1-11-2021

Duration: 1 Hour

Max. Marks: 25

*Course Articulation Matrix: (to be placed)*

S.No.	Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	CO1	L	-	-	H	-	L	-	L	H	H	-	H
2	CO2	H	-	-	H	H	-	-	-	H	H	-	H
3	CO3	H	-	-	H	-	-	-	-	H	H	-	H
4	CO4	H	L	M	H	H	-	-	-	H	H	-	H
5	CO5	H	H	M	H	-	H	H	H	H	H	-	H
6	CO6	H	M	L	H	M	M	L	M	H	H	-	H

**Part - A**  
**(5 x 1 = 5 Marks)**

**Instructions: Answer all**

Q. No	Question	Marks	BL	CO	PO	PI Code
1	<b>Engineering is an important and learned profession. As members of this profession, engineers are expected to exhibit the highest standards of _____.</b> A. competence and expertise B. honesty and integrity C. compassion and consideration D. confidentiality and sensitivity	1	L1	1	1	1.6.1
2	<b>The services provided by engineers must be dedicated to the protection of the _____.</b> A. public health, safety and welfare B. public satisfaction, convenience and prosperity C. public understanding, appreciation and reciprocity D. public attention, engagement and participation	1	L1	1	2	2.6.3
3	<b>In STEAM, “A” stands for</b> A. Act B. Art C. Action D. Activity	1	L2	1	2	2.6.3
4	<b>_____ are people who use math, science,</b>	1	L2	1	2	2.6.3

	<b>and imagination to solve problems.</b> A. Scientists B. Engineers C. Artists D. None of the above					
5	<b>Which of the following is an advantage of technology?</b>  A. It makes work harder B. It improves the speed at which work is done C. It may cause people to lose their jobs if robots replace them D. Humans may depend on it too much	1	L1	1	1	1.6.1
<b>Part - B</b> <b>(5 x 2 = 10 Marks)</b> <b>Instructions: Answer all</b>						
6	Define Science and Technology.	2	L1	1	1	1.6.1
7	Describe the relationship between mathematics and science.	2	L2	1	5	5.4.1
8	Define problem solving?	2	L2	1	1	1.6.1
9	Why Leadership is a major attribute of engineers?	2	L2	1	1	1.6.1
10	What is meant by STEAM?	2	L1	1	1	1.6.1
<b>Part - C</b> <b>(2 x 5 = 10 Marks)</b> <b>Instructions: Answer all</b>						
11	Explain in detail about STEAM pyramid.	5	L1	1	1	1.6.1
12	<p>You are a trainee accountant in your second year of training within a small practice. A more senior trainee has been on sick leave, and you are due to go on study leave. You have been told by your manager that, before you go on leave, you must complete some complicated reconciliation work. The deadline suggested appears unrealistic, given the complexity of the work. You feel that you are not sufficiently experienced to complete the work alone. You would need additional supervision to complete it to the required standard, and your manager appears unable to offer the necessary support. If you try to complete the work within the proposed timeframe but fail to meet the expected quality, you could face repercussions on your return from study leave. You feel slightly intimidated by your manager, and also feel pressure to do what you can for the practice in what are challenging times.</p> <p><b>Question:</b> Is it possible to complete the work within the time available and still act diligently to achieve the required quality of output? Explain.</p>	5	L2	1	1	1.6.1