2019/TDC/ODD/SEM/PHSSEC-301T/076

TDC (CBCS) Odd Semester Exam., 2019

PHYSICS PHYSICS

(3rd Semester)

Course No.: PHSSEC-301T

Workshop Skill) a wall

Full Marks: 50
Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

UNIT-I

- 1. Answer any three questions:
- 1×3=3
- (a) Give the SI unit of temperature.
- (b) The density of wood in CGS system is 0.5 g cm^{-3} . Find its value in SI.
- (c) Write down the expression for volume of a cylindrical beaker of length L and radius R.
- gauge?

(3)

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0	. Answer any one question: 2		6. Ans	swer any one question:		
2.	(a)	Explain instrumental error	(a)	Explain metal casting. White remains .01		
3.	(b)	Calipers. What are meant by pitch and least count? wer any one question:	(b) 10 11	What is welding? Briefly explain any one type of welding. 1+4=5 OND to make allow the property of the proper		
	(a) How can you measure the diameter of a thin wire by screw gauge?			uswer any three questions : 22 vol. 11×3=3		
	(b)	b) Describe the use of sextant to measure the height of a building.	(a)	Name any two materials used for making cutting tools.		
			(b)	What is the effective length of a file?		
	which has been unit—II all on good of the marks		(c)	Name any one tool used in fitting operation.		
4.	Ans (a)	what is machining?		What is a shaper related to workshop?		
5.	(b) (c)	Name any one type of electrical furnace used in foundry. What is meant by cast iron?	8. Answer any one question: Sylagus (a) What is milling?			
	(d)	Name any important joining process used in workshop.		What is bench vise? ORD n to margard shock diagram of n CRO		
	Answer any one question: (a) What is stainless steel? (b) Name one alloy of copper and mention its any two useful properties.			swer any one question : d of light 5		
			'ISAT	What is lathe? Give a list of types of lathe used for manufacturing machine parts. 1+4=5		
20J	/110		(b) Explain drilling process. 20J/1109 (Turn Over)			

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	UNIT_IV BUS VOR PRAZZE AND			
10.	Answer any three questions: 1×3=3		UNIT—V	
4=5	(a) Explain the term 'soldering'. (b) Mention one application of CRO.	10.		wer any three questions: What is the utility of gear system? Mention any two types of braking
	(c) Name one device which is used as a voltage regulator in power supply.		(c) (d)	What are three types of lever? What is a pulley?
8=8	Cylman	14.	• /	wer any one question:
11.	Answer any one question: 2		(a)	Explain the working principle of a power generation system.
	(a) State various electrical quantities that can be measured with a multimeter.		(b)	Explain how a wheel is connected to a gear system.
	can be measured with a surface of the surface of th		Answer any one question:	
Ć.	(b) What is the difference between regulated and unregulated power supply?			What do you understand by (i) fixed, (ii) movable and (iii) compound pulleys? Explain with example of each.
12.	Answer any one question: 5		(b)	Explain briefly the mechanism of lifting of heavy weight using lever.
	(a) Draw the block diagram of a CRO and explain briefly the function of each block. 2+3=5			***
ĕ≈₽-	(b) Describe in detail the working of a timer circuit.			

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