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BVOC (SEM I) THEORY EXAMINATION 2021-22 SOLDERING & DE-SOLDERING OF COMPONENTS & EMERGENCY ACTIONS

Time: 3 Hours Total Marks: 30

Notes:

- Attempt all Sections and assume any missing data.
- Appropriate marks are allotted to each question, answer accordingly.

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SECT	TION-A	Attempt All of the following Questions in brief	Marks(6X1=6)					
Q1(a)	How to prepare component for soldering.							
Q1(b)	List out different solder materials and their grading.							
Q1(c)	Define components mounted circuit boards.							
Q1(d)	Define De soldering using Pump and wick.							
Q1(e)	Define SMD Components.							
Q1(f)	Highlight the emergency actions taken during soldering and de soldering.							
	TION-B	Attempt ANY THREE of the following Questions	Marks(3 X3=9)					
		the different types of soldering guns related to temperatu	are and wattages.					
Q2(b)	Write Short Notes on any two of the following:							
	(i). PCB Applications							
02()	(ii). Type		11 1 70 4					
Q2(c)	How to make the necessary settings on SMD soldering station to solder various ICs of							
02(1)	different packages by choosing proper clamping tools, Explain.							
	Explain De solder on the SMD components from the given PCB.							
Q2(e)	2(e) Explain the methods used to join the broken PCB track and test.							
SECT	TION-C	Attempt ANY ONE following Question	Marks (1X3=3)					
		the solder materials used also explain their grading.	2021					
		the soldering and De Soldering Stations and their Specif	ications.					
CECT	TION C	Att ANN ONE CIL.	(17/2 2)					
	F1-:41	Attempt ANY ONE following Question	Marks (1X3=3)					
		he soldering basic components used on PCB.						
Q4(b)	(b) Explain the identification of loose/dry solder, broken tracks on printed wire assemblies & discrete components mounted circuit boards.							
	uiscicie e	omponents mounted effectit boards.						
SECT	TION-C	Attempt ANY ONE following Question	Marks (1 X3=3)					
Q5(a)	Explain tl	he safety precautions while soldering & De soldering.						
Q5(b)	Explain tl	he identification of 2, 3, 4 terminal SMD components.						
SECT	TION-C	Attempt ANY ONE following Question	Marks (1 X3=3)					
			warks (1743–3)					
	(a) Explain the term reliable soldering practices. (b) Explain how to De solder the SMD components from the given PCB.							
20(0)	L'APIGITI II	on to be solder the on be components from the given i	С Б,					
	TION-C	Attempt ANY ONE following Question	Marks (1 X3=3)					
	Explain the identification of crimping tools for various IC packages.							
Q7(b)	Q7(b) How to make a panel board using different types of switches for a given application,							
	Explain.							