

				Sı	ıbje	ct C	ode:	BE	MV	<b>'513</b>
Roll No:										

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## BVOC (SEM I) THEORY EXAMINATION 2021-22 TOOLS, EQUIPMENT & SAFETY MEASURES –I

Time: 3 Hours Total Marks: 30

**Notes:** 

accidents.

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

	Арргоргіш	e marks are allotted to each question, answer accordingly.	
	ION-A	Attempt All of the following Questions in brief	Marks(6 <b>X1=6</b> )
Q1(a)	Discuss tl	ne importance of colour codes in electrical wiring.	
Q1(b)	Why is P	VC casing-capping preferred over wooden casing-capping wiring?	)
Q1(c)	Silver is a	a good conductor of electricity, but it is rarely used as a wiring man	terial. Why?
Q1(d)	Differenti	ate between armoured & unarmoured Cable.	
Q1(e)	Write sho	ort note on Twin-Lead Cable and Twin axial Cable.	
Q1(f)	What type	e of clothing causes static electricity?	
	ION-B	Attempt ANY THREE of the following Questions	Marks(3 <b>X3=9</b> )
		onduit wiring? Why is conduit wiring used in homes?	
Q2(b)		ort Notes on any two of the following:	
	/	Conductor Cable	
	/	ll Cable Connectors	1
		Metallic Sheathed Cable	6
		you mean by Electric Cable? And what are their uses?	No.
		the major components of a cable?	0.
Q2(e)	What are	cable connectors? Explain the types of cable connectors.	V (2)
SECT	ION-C	Attempt ANY ONE following Question	V + (1V2-2)
		the basic tools and materials required for fixing the accessories on	Marks (1X3=3)
Q3(a)		uss the required precautions.	the board:
O3(b)		s it mean by the current loading of an underground cable?	
Q3(0)	W Hat GOC	s it mean by the earrent loading of an underground earle.	
	ION-C	Attempt ANY ONE following Question	Marks (1X3=3)
Q4(a)	Explain tl	ne configuration of Shielded Twisted Pair (STP) Cable and its app	lication.
Q4(b)	Explain tl	ne Different colors of wires and their purposes in AC and DC circu	uits?
CECT	ION C	Att ANIX ONE CIL : O C	· (1W2 2)
	ION-C	Attempt ANY ONE following Question	Marks (1X3=3)
Q3(a)		nort note on optical fiber construction. What are the advantages an	d limitations of
O5(b)	fiber option		als dia amama
Q3(b)	Explain o	riefly 'optical fiber communication system', with the help of a blo	ck diagram.
SECT	ION-C	Attempt ANY ONE following Question	Marks (1X3=3)
Q6(a)		SD clothing and how does it work? Explain in detail.	
Q6(b)		you understand by ESD? What are the fundamental principles of E	ESD control?
	ION-C	Attempt ANY ONE following Question	Marks (1X3=3)
		major steps of the first aid for electrical emergencies? Discuss.	
Q7(b)	What are	the three types of electrical accidents? Also discuss the main caus	es for electrical
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