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# V Semester Diploma Examination, April/May-2018

# ORGANISATIONAL MANAGEMENT AND ENTREPRENEURSHIP

	DIVINE REPUBLIKE	- 1
Tim	ie: 3 Hours ] [ N	Max. Marks: 100
Note	(i) Answer any six full questions from Part – A. $(5 \times 6 = 30 \text{ M})$	arks)
	(ii) Answer any seven full questions from Part – B. $(7 \times 10 = 70)$	) Marks)
ž		.*3
04	PART – A	$5\times 6=30$
1.	Write a note on inter-personal skills.	
2.	Explain the methods of purchasing.	
3.	Explain Pareto chart of TQM.	в г. —
4.	Describe the benefits of TPM.	
5.	Explain indirect losses due to accident.	* •
6.	Mention the duties of safety inspector.	
7.	Explain project planning.	39
8.	Write scope and role of small scale industries.	· · · · · · · · · · · · · · · · · · ·
9.	Write the different areas of employment opportunities.	•
	1 of 2	Turn over

#### PART-B

7 × 10 = 70

- 10. List the functions of management and explain them.
- 11. Explain stores management system.
- 12. Illustrate the types of production with their characteristics.
- 13. Explain MRP and ERP.
- 14. Describe flow chart and control chart of TQM.
- 15. Write the procedures to attain ISO registration.
- 16. Illustrate the general safety rules.
- Explain the factors which influence entrepreneurship.
- 18. Explain the sources of finance to start an enterprise.
- 19. Explain the sources of recruitment.



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# ARM CONTROLLER

Tim	ie : 3 Hours	1.	- 1 <mark>10</mark> - 10	Max. N	Marks: 100
Note	e: (i) Answer any six qu	estions from Part	– <b>A</b> .		
*	(ii) Answer any seven	questions from P	art – B.		
			\$ 11.71	1.14	Taranta da
	*		3 E	50	
		PART -	<b>A</b>	. <mark>S</mark> e a sine	,
1.	List any five features of AF	RM design philoso	phy.	en elle da	5 :
		*			
· 2.	Explain MRS Instruction.			and the	5
3.	Differentiate between ARM	1 and THUMB Ins	truction.	T. Since	5
4.	Discuss Assembler Directiv	/e:	V.	*6	5
	(a) DCB			_ 1	5
	90 0				•=
	(b) ALIGN		enger in 1950 p	T. cette	
5.	Explain Exception handling	schemes.	4	· ·	.5
	b		a te g		
6.	Discuss Interrupt Latency.		8 E S		5
•	,	w 190 ° 1		_	. J.
.7.	List any five features of LP	C 2148.			5
		<u>.</u>	2 0 5	(6)	
8.	List features of USB.	i i i			5
*)					100
9.	Explain Pin Connect Block	of LPC 2148.	#/ */		5
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	, v.	W en			

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## PART – B

10.	Sketch the block diagram of data flow model and explain.			10
11.	Explain the bit structure of CPSR.	ta na d	5 u	10
12.	Implement Multiple Load Concept using LDMIA.			10
13.	(a) Explain BL Instruction. (b) Explain SWAP Instruction.	14 12 0 14 14 1 14 14 1		5
14.	Discuss the Interworking of ARM and THUMB.	*. 3 v v	· · · · · · · · · · · · · · · · · · ·	10
15.	Explain the nested interrupt handler with a neat sketch.			10
16.	Sketch the block diagram of LPC 2148.	* * * * * * * * * * * * * * * * * * *		10
<u>1</u> 7.	Explain procedure and with example PLL frequency calculati	on.	7	10
18.	Discuss GPIO and its Registers.	. t 1/5		10
19.	Explain the architecture of TIMER module of LPC 2148.	- ,		10



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V Semester Diploma Examination, Nov./Dec.-2018

# ADVANCED COMMUNICATION

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	Note	•		ver any six q ver any seve				to			to the	
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			25			ART – A		- 1	1	9 7 4	12/14	1
			~ ,	er sa		AKI - A	<b>1</b>		₫°	(*)	٠.	
	1.	Defin	e and sk	etch the figu	res of IMD	ATT and	TDADAT	m 1: 1				r Gigg
	••		e and sk	eten the figu	iles of fivir	A I I and	IKAPAI	I diodes.		5		5
	2.	Liet t	ha Antar	na Caannin	ond Track			· •0"	1.0		7.	
	۷.	List	iic Ailtei	nna Scanning	g and I rack	ing meth	ods.		,			5
	3.	Com		I DD	T. 311		an et				0.0	
	Э.	Comp	pare A-se	cope and PP					ä	(3)		5
	,	T.						04.5 ·		In .	h 1.	
	4.	Expia	in Uplir	nk and Down	ilink freque	ncies.	•	·.				5
-	_	4.1 ·			4.4		the state		in to an		i e	-1
2	5.	Expla	ain Singl	e Conversion	n transpond	ler with r	eat sketch	ı.		*		5
				*	-			79			-1	
	6.	List s	satellite a	applications	in different	areas.	,	,	i.		•	5
		0		4	į.						\$ g	
	7.	Expla	ain GPS.		1		67.0					5
				*	, ,							
	8.	Expl	ain the C	apacity Exp	ansion Tecl	hniques.						5
			±		•		101					
	9.	Write	e the imp	ortance of f	requency re	use in m	obile com	municatio	n.			5
				*.			9 7	<b>K</b> :			•	
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# PART - B

10.	Explain construction and working of TWT.	10
	with 1961 the mail and harmony described to the tree of	
11.	Explain the construction and working of a TRAPATT diode.	10
12.	Explain the working of CW Doppler RADAR.	10
0.	grand and the second of the se	
13.	Illustrate the working of GCA Landing System for aircrafts.	10
14.	Compare LEO, MEO and GEO satellite.	10
15.	Explain the working of TTC satellite subsystem with neat block diagram.	10
	A second to the	
16.	Explain DTH system with neat figure.	10
	the first of the state of the s	10
17.	List the features of CDMA 2000 system.	10
		10
18.	With a neat block diagram explain the architecture of GSM.	+
		10
10	The same who we have a second and a second	1
19.	Discuss the network topologies and applications of Zigbee.	10



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V Semester Diploma Examination, Nov./Dec.-2018

# APPLICATIONS OF ELECTRONICS ENGINEERING

Time:	3 Hours	Max	Marks:	100
Note:	<ul> <li>(i) Answer any six questions from Part – A. (6 × 5 = 30)</li> <li>(ii) Answer any seven questions from Part – B. (7 × 10 = 70)</li> </ul>	0)	•	
	PART – A	* .		ă ă
1. W	rite note on Refrigeration.	•		5
2. Li	ist the needs of electronics in automobile.	÷ .	¥.	5
3. M	ention the features of microphone.		, .	5
4. Ex	xplain the operation of any one microphone with neat figure.			5
5. Co	ompare LED, LCD, HDTV.			. 5
6. W	rite a note on Smart T.V.	i	¥ 2.	5
7. Ex	xplain the features of Video gaming systems.			. 5
8. Ex	xplain the working of LCD projector.	ov.		
9. Lis	st the qualities of robot.	.;°		5
	1 of 2	•		5

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# PART – B

10.	Expla	ain the working principle of washing	machine.	-1			. 10
d Ev	With	an example explain how calculator nal organisation of a calculator.	r works an	nd with a	neat diagr	am exp	olain 10
		en	<u> </u>				3 · E11
12.	Expl					174	: 5
٠	(a)	Electronic ignition	10 10 10		3 4	11 TO 11	5
	(b)	Ultrasonic car safety belt system	2 111 120	*1.** 2 *1	· *	• 1:	
		•	7.1 t	9		(4 m	10
13.	Ana	lyse the block diagram of vehicle navi	gation.		•		10
			41	£1			s 1 <u>-</u>
14.	(a)	Explain how basic loudspeaker work		3.5%			5
	(b)	Compare basic loudspeaker and crys	stal loudspe	aker.	2.0		5
15.	Witl	h neat block diagram explain working	of colour	ΓV transm	itter.	o 5003	-10
16.	(a)	Explain the concept of Interactive v	ideo system	a.	z e		5
	(b)	Write a short note on video gaming					5
17.	(a)	Explain working of pick and place r	obot.	2.		5	5
17.	1	Write a note on drive system.		*	•	,	5
	(b)	Wille a note on drive system			- 1, 4,		
18.	(a)	List the advantages and disadvantage	ges of robot	t. · ·			5
, 10.	(b)	Briefly explain robotic vision system			1	4	, 5
e ii 9.		alyse the non-servo control systematications.	m and se	rvo contr	ol system	in ro	obotic 10



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# ORGANISATIONAL MANAGEMENT AND ENTREPRENEURSHIP

Tim	e: 3 Hours	Max. Marks : 100
Note	<ul> <li>(1) Answer any six questions from Part – A. (6 × 5 = 30)</li> <li>(2) Answer any seven full questions from Part – B. (7 × 10)</li> </ul>	) = 70)
	PART – A	
1.	List the benefits of SWOT-Analysis.	
2.	Define MRP and ERP.	5
3.	List the types of TQM tools.	· .
4.	Explain ISO 9000 series quality standards.	, 5
5.	Mention the duties of safety supervisor.	
6,	Explain the indirect losses due to accident.	
7.	Define entrepreneur and entrepreneurship.	
8.	Summarise the factors that influence entrepreneurship.	5
9.	Mention the important causes for unemployment.	5
	1 of 2	[Turn over
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	42	PART – B	
10.	(a)	Compare Team and Group.	5
	(b)	Analyse the importance of knowing yourself.	5
ij.	Clas	sify and explain production process.	10
12.	Expl	ain break-even analysis with breakeven chart.	10
13.	Illus	trate the various inventory control techniques.	10
14.	Desc	cribe Flow chart and Pareto chart of TQM with neat diagrams.	- 10
15.	Illus	trate the different types of inspections.	10
16.	Desc	cribe the types of tire extinguishers.	10
17.	Expl	ain the sources of finance to start an enterprise.	10
18.	Writ	e a note on market survey and market risks.	10
19.	(a)	Write and explain the different employment opportunities in India.	. 5
	(b)	Express the steps/process in selection.	5



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# ARM CONTROLLER

Tim	e: 3 Hours	Max	. Marks : 100
Note		om Part – A. $(6 \times 5 = 30 \text{ Marks})$ ions from Part – B. $(7 \times 10 = 70 \text{ Mas})$	arks)
	P	ART – A	
1.	List the applications of ARM processe	or.	5
2.	Explain Barrel shifter with a neat sket	ch.	5
3.	Describe the following directives :		. 5
	EQU, SPACE, ALIGN, DCD, DCW		
4.	Explain ARM-THUMB networking u	sing BLX instruction.	5
5.	Write code for disabling IRQ and FIQ	interrupts.	5
<b>6.</b>	Explain interrupt stack design with a	neat sketch.	5
7.	List any five features of RTC.		5
8.	Name any five features of I <sup>2</sup> C.	-	5
9.	Explain the bit structure of PLL STA	register.	5
		1 of 2	Turn over



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# ADVANCED COMMUNICATION

Tim	e: 3 Hours	Max. Marks : 100
Note	(i) Answer any six questions from Part – A ( $5 \times 6 = 30$ ma (ii) Answer any Seven questions from Part – B. ( $10 \times 7 = 7$	(A) ** (A)
	PART – A	
1.	List the applications of microwave signal.	5
2.	Explain the factors that influence Rader range.	5
3.	Compare A-scope and PPI display.	5
4.	Define satellite and explain the satellite orbits.	5
5.	With a block diagram, explain satellite communication system.	5
6.	List the satellite applications for different areas.	5
7.	Explain the earth observation application of satellite.	5
8.	Explain Handoff strategies.	5
9.	Write the importance of cell-splitting and cell-sectoring in mobile	networks. 5
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19. Explain the features of Wi-Fi and Hot-Spot technology.

10



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# APPLICATIONS OF ELECTRONICS ENGINEERING

Tim	e: 3 Hours J	Max. Marks : 100
Note	<ul> <li>(i) Answer any six questions from Part-A. (6 × 5 = 30)</li> <li>(ii) Answer any seven full questions from Part-B. (7 × 10 =</li> </ul>	<del>·</del> 70)
	PART-A	
1.	Write short notes on Xerox Machine.	5
2.	Explain Electronic ignition lock system.	5
3.	List different types of Microphones headphones and Loud Speak	ers. 5
4.	Explain the operation of any one headphone with neat figure.	5
5.	List image / video capturing and displaying electronic devices.	5
6.	Write a note on Smart TV.	
7.	Mention atleast five electronic Musical Instruments.	5
8.	Mention the applications of virtual reality.	5
9.	Define robotics and list applications of robotics.	5
	1 of 2	[Turn over

### PART-B

10.	Write about Microwave	working principle of Microwave cooking and write the loven.	block diagram of 10
11.	What is a Calculator.	calculator? With a neat diagram explain Internal of	organisation of a
12.	Explain the	following:	
	(a) ABS	•,	5
	(b) Solar a	automobiles.	5
13.	With block	diagram explain vehicle proximity detection system.	10
14.	With relativ	e diagram explain any two microphone.	10
15.	(a) Draw t	the block diagram of Colour TV Receiver.	5
	(b) Mentio	on the features of digital camera	5
16.	(a) Write	a note on electronic guitar.	5
	(b) Write	a short note on video gaming system.	5
17.	Analyse the	non-servo control system and servo control system in ro	botic application. 10
18.	(a) Explai	n degrees of freedom.	5
	(b) List ad	lvantages and disadvantages of Robot.	5
19.	(a) Define	Sensors. Classify different Robotic sensors.	5
	(b) Define	Actuators. Explain electrical actuators.	. 5