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Candidate's	Seat	INO.	:

Third Year B. Prosthetics & Orthotics Examination

Computer Science Date: 01-02-2019, Friday] [Max. Marks: 100 [Time: 3 Hours **Instructions**: (1) Answer to the point. (2) Figure to the right indicates marks. (3) Draw diagrams wherever necessary. (4) Write legibly. (5) Use separate answer books for each section. Section-1 Q-1Define about computer. Explain it's characteristic and its basic application [20] OR Q-1 Write notes on the function of MS-EXCEL. [20] . Q-2 Answer in brief any two: [16] (1) What is hardware of computer? Explain in brief. (2) What is Operating System of computer? (3) Discuss about 'Word Art', 'Clip Art', and 'Find/Replace' with respect to MS-WORD Q.3Write Short notes on any two: [14] (a) Printers (b) Internet and e-mail. (c) Power point presentation. **SECTION-II** [20] Q-4 List out the Draw menu tools and explain it. Q-4 Discuss about 'Product life cycle management' with flow chart. Q-5 Answer in brief any two. [16](1) How many phases of designing process? Discuss it. (2) What is automation? explain in brief (3) Explain about the types of curves.

Q-6 Write a short note any two.

[14]

- (1) Use of automation in P&O
- (2) Merits and Demerits of CN
- (3) Constructional feature of CNC machine.

Candidate's Seat No:

Third Year B. Prosthetics & Orthotics Examination Prosthetics & Orthotics Workshop Management

Date: 21-01-2019, Monday] [Max. Marks: 100 [Time: 3 Hours Instructions: (1) Answer to the point, (2) Figure to the right indicates marks. (3) Draw diagrams wherever necessary. (4) Write legibly. (5) Use separate answer books for each section. Section -1Q.1. What is organization? Principles of good organization? OR Q.1. Principles of management? (16)Q.2 Write short notes on (Any two) (A) Describe distribution of work (B) Describe store & store organization (C) Explain management characteristics (14)Q.3 Write short note (Any two) (A) Explain industrial accidents (B) Use of computer for effective store management (C) Explain work sheet Section -II (20)Q.4. Explain type of organizational setup workshop administration & management OR Q.4. Principles of administrative & management structure Q.5 Write short notes on (Any two) (16)(A) Explain industrial safety & hazards (B) Explain different between worksheet & time sheet (C) Describe construction Q.6 Write short note (Any two) (A) Explain characteristics of organization (B) Describe costing & billing

(C) Explain ventilation & lighting

Third Year B. Prosthetics & Orthotics Examination Research Methodology/Project Development

		Research I	Methodology	Project Devo	elonment		-
	23-01-2019, V	Vednesday]		y	- opinem	[Max. Marks	• 100
	3 Hours	, i	•			en initi	. 100
Instr	uctions: (1)	Answer to the po				•	
	(2)	Figure to the right	indicates mar	ks.			
	(3)	Draw diagrams w	herever necess	ary.			
	(4) (5)	Write legibly.	von hooles for	. 1			
•	(0)	Use separate answ	ver books for	each section.			
			Sectio	n-I			
	Q.1 Define statis	stics, Bio-statistics an	d explain in det	ail about variou	s applications of	Bio-statistics.	
			e e			(20)	
			OR				
	Q.1 Explain abou polygon and hist	ut different methods togram.	of collection of	data in Bio-stat	istics. Explain abo	out frequency (20)	
	Q.2 Write short	notes (Any two)	•			(16)	÷
	1. Frequency	curve					
	2. Methods o	f presentation of dat	a	•		•	
	3. Frequency	distribution table an	d ogive		• .		
	Q.3 Write notes	in short (Any two)				(14)	
		ian and mode		•			
-	2. Likert scale			•			
	3. Qualitative	and Quantitative da	ta				
. '	•	•					
			Section	ı- II			
	Q.4 Define resea objectives of res	irch. Explain about di earch design.	efining the rese	arch problem, n	eed for research	design and (20)	
			· OR			,	
	Q.4 What is sam scale	ple? Explain about cr	riteria to select a	a sampling proc	edure. Explain ab	oout nominal (20)	
	Q.5 Write short	notes (Any two)			•	(16)	
-	1. Hypothesis						
	2. Measureme	nt scales					
•		r the collection of pr	rimary data				
		in short (Any two)				(14)	-
		error in measuremen	t			4+ 11	
	2. Sampling fu			. *			
	z. yampiing lu	Hadificilitätä					

3. Observation, Interview and consumer panels for the collection of data

Candidate's Seat No: ___

Third Year B. Prosthetics & Orthotics Examination Mobility and Rehabilitation Aids

[Max. Marks: 100 Date: 25-01-2019, Friday] [Time: 3 Hours Instructions: (1) Answer to the point. (2) Figure to the right indicates marks. (3) Draw diagrams wherever necessary. (4) Write legibly. (5) Use separate answer books for each section. Section-1 (20)Q.1 Describe different gait patterns with Axillary crutches. Q.1 Cushions and its fabrication technique and wheelchair modification. (16)Q.2 Write Short Notes (2 out of 3) a) Advantages and disadvantages of motorized wheelchair. b) Para podium. c) Walker and their attachments. (14)Q.3 Write Short Note (2 out of 3) a) Low level cart. b) Installation / fabrication parallel bars. c) Types of wheelchair. Section-II Q.4 Special gadgets to assist in activities of daily living in spinal cord injury patients. (20)Or Q.4 Write in detail about biomechanics of various kinds of molded seats. Q.5 Write a short notes (2 out of 3) a) Suspension or right kinds of strapping. b) Fabrication of box seat. c) Developmental and educational toys. (14)Q,6 Write Short note on (2 out of 3) a) Pressure Relief techniques. b) Care and maintenance of wheelchairs. c) Forearm support.

[Max. Marks: 100

Third Year B. Prosthetics & Orthotics Examination

Prosthetics Science-III

Date: 28-01-2019, Monday]

[Time: 3 Hours

Instructions: (1) Answer to the point.

- (2) Figure to the right indicates marks.
- (3) Draw diagrams wherever necessary.
- (4) Write legibly.
- (5) Use separate answer books for each section.

SECTION I

- 1. Describe with neat diagram about Myo electrical Prosthesis- components, Testing Proscedure and how it works.
- 20.

16.

- 2. Write short notes (2out3).
 - (a) Different types of prosthetic Elbow units.
 - (b) Indication of Munster socket and its advantages.
 - (c) Different types of harness system for B/E Prosthesis.
- 3. Write Short notes(2out3).

14.

- (a) Advantage of having a wrist flexion unit
- (b) Different solution for partial hand amputations.
- (c) Quick change wrist unit

SECTION II

- 4. Describe with neat diagrams of different types of cable control system used in U/E. Prosthesis with their respective indications.
- 5. Write short notes (2out3).

16.

20.

- (a) Munster Socket.
- (b) Compare hook and hand.
- (c) Bio mechanics of Upper limb prosthesis.
- 6. Write Short notes(2out3).

14.

- (a) Step-up Hinges
- (b) Types of prosthetic training given to upper limb users.
- (c) Types of shoulder units for Shoulder Disarticulation Prosthesis.

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100

Third Year B. Prosthetics & Orthotics Examination Orthotics Science-III

Date : 3	0-01-2019, Wednesday]	[Max. Marks:
(Time :	3 Hours	
Instru	actions: (1) Answer to the point.	
	(2) Figure to the right indicates marks.	
	(3) Draw diagrams wherever necessary.	•
	(4) Write legibly.	
	(5) Use separate answer books for each section.	
	Section – I	
4	Explian Brachial Plexus, and its injury and Role of Orthosis in Brach	ial Plexus Injury (20 Marks)
1.	Or	ide (lexas injuly (25 marro)
	Upper Extrimity Orthotics management for Acute Tetraplegia	
2.	Write Short Notes (any two.)	(16 marks)
	a. Burn Claw Hand deformity	
	b. Resting wrist hand orthosis	•
	c. Low Profile dynamic extension orthosis	·
		(1 4) Angles)
3.	Write Short Notes (any two.)	(14 Marks)
	a. Droup out Cast	
	b. Hand orthosis with MCP extension stop	
	c. Mobile Arm Support	
	Section – II	
4	Functional bracing of diaphyseal humeral fracture	(20 marks)
	Or ·	
	Describe Mechanical Principle of Splinting	
	Write Short Notes (any two)	(16 Marks)
5	had the additional time outbook in courts	(10
	6 - 11-20 6	•
•		•
	c. Basic Hand Maneuvers	•
6	Write Short Notes (any two.)	(14 marks)
,	a. Low temperature thermoplastics orthosis	
	b. Dynamic dorsal wrist hand orthosis	
	c. Ulnar deviation orthosis in R.A.	
	C. Office deviation of choose in the	