

312321

24225

3 Hours / 70 Marks

Seat No.

--	--	--	--	--	--	--	--

-
- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Assume suitable data, if necessary.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.
(6) Use of 1/4th scale and French curve is permitted.

Marks

1. Attempt any FIVE of the following : 10
- List the standard measurement charts for different countries available in garment industry.
 - Define 'bias'. Show the true bias in a diagram.
 - Define 'Pattern'.
 - Sketch the Yoke part for men's basic shirt and state its location on shirt.
 - Enlist the measurements required for drafting A – line frock.
 - Illustrate the sailor's collar.
 - Illustrate the Tulip sleeve.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Explain the different measurement types with two examples each.
 - b) Differentiate between bespoke method and industrial method of pattern making.
 - c) Write the steps of drafting the basic sleeve with elbow dart for women.
 - d) In 1/4th scale, draft the basic men's shirt sleeve. (Size 40)
- 3. Attempt any THREE of the following :** **12**
- a) Explain the importance and requirements of draping technique.
 - b) Draft the women's salwar block and write its drafting details. (Refer any size)
 - c) Draft the waist line frock and write drafting details. [Size 24]
 - d) Adapt the leg-o-mutton sleeve from basic sleeve with neat sketch.
- 4. Attempt any THREE of the following :** **12**
- a) Describe the types of patterns used in apparel industry.
 - b) In 1/4th scale, draft boy's shorts (Age six years)
 - c) In 1/4th scale, draft the flat front trouser block – size 34.
 - d) Compare Kimono sleeve with puff sleeve.
 - e) Show the diagram of basic bodice block for women and mark all the important lines, symbols and points (any size).

5. Attempt any TWO of the following : **12**

- a) Describe any two cutting tool used in pattern making in detail.
- b) Draft skirt front and skirt back for women with drafting instructions.
- c) Draft the stand collar and shawl collar with their details.

6. Attempt any TWO of the following : **12**

- a) Show the adoption of a katori blouse from the basic bodice block. (Any size) write its steps.
- b) Draft boy's shorts with drafting details [size / height 116]
- c) Draft the basic shirt collar and sleeve. (Refer any size)

Marks

Standard Body Measurements - Mature Figure (REGULAR MEN'S SIZING)

A SIZE CHART FOR OVERGARMENTS, TROUSERS

Height 170 cm-178 cm (5 ft 7 in-5 ft 10 in)

A	CHEST	88	92	96	100	100	104	108	112	116	120
B	SEAT	92	96	100	104	104	108	114	118	122	126
C	NATURAL WAIST	74	78	82	86	86	90	98	102	106	110
D	TROUSER WAIST (4 cm below natural waist)	77	81	85	89	89	93	100	104	108	112
E-F	HALF BACK	18.5	19	19.5	20	20	20.5	21	21.5	22	22.5
G-H	NATURAL WAIST LENGTH	43.4	43.8	44.2	44.6	44.6	45	45	45	45	45
G-I	SCYE DEPTH	22	22.8	23.6	24.4	24.4	25.2	26	26.4	26.8	27.2
J	NECK SIZE	37	38	39	40	40	41	42	43	44	45
K-L	SLEEVE LENGTH, ONE-PIECE SLEEVE	63.6	64.2	64.8	65.4	65.4	66	66	66	66	66
E-M	SLEEVE LENGTH, TWO-PIECE SLEEVE	79	80	81	82	82	83	83.5	84	84.5	85
N-O	INSIDE LEG	78	79	80	81	81	82	82	82	82	82
P-Q	BODY RISE	26.8	27.2	27.6	28	28	28.4	28.8	29.2	29.6	30
R	CLOSE WRIST MEASUREMENT	16.4	16.8	17.2	17.6	17.6	18	18.4	18.8	19.2	19.6
EXTRA MEASUREMENTS											
GARMENT LENGTH											
CUFF SIZE, TWO-PIECE SLEEVE											
TROUSER BOTTOM MEASUREMENT											
JEANS BOTTOM MEASUREMENT											
		varies with type of garment and with fashion	27	28	29	30	31	31.6	32.2	32.8	33.4
			23.5	24	24.5	25	25.5	26	26	26	26
			20.5	21	21.5	22	22.5	23	23	23	23

Standard Body Measurements

The largest percentage of the population falls into medium height range. Although the girth of women varies, the general trend is for weight to increase with height. This feature is reflected in the size charts.

SIZE SYMBOL	WOMEN OF MEDIUM HEIGHT 160cm-170cm (5ft 2 1/2in-5ft 6 1/2in)											
	8	10	12	14	16	18	20	22	24	26	28	30
BUST	80	84	88	92	97	102	107	112	117	122	127	132
WAIST	60	64	68	72	77	82	87	92	97	102	107	112
HIPS	85	89	93	97	102	107	112	117	122	127	132	137
BACK WIDTH	32.4	33.4	34.4	35.4	36.6	37.8	39	40.2	41.4	42.6	43.8	45
CHEST	30	31.2	32.4	33.6	35	36.5	38	39.5	41	42.5	44	45.5
SHOULDER	11.75	12	12.25	12.5	12.8	13.1	13.4	13.7	14	14.3	14.6	14.9
NECK SIZE	35	36	37	38	39.2	40.4	41.6	42.8	44	45.2	46.4	47.6
DART	5.8	6.4	7	7.6	8.2	8.8	9.4	10	10.6	11.2	11.8	12.4
TOP ARM	26	27.2	28.4	29.6	31	32.8	34.4	36	37.8	39.6	41.4	43.2
WRIST	15	15.5	16	16.5	17	17.5	18	18.5	19	19.5	20	20.5
ANKLE	23	23.5	24	24.5	25.1	25.7	26.3	26.9	27.5	28.1	28.7	29.3
HIGH ANKLE	20	20.5	21	21.5	22.1	22.7	23.3	23.9	24.5	25.1	25.7	26.3
NAPE TO WAIST	39	39.5	40	40.5	41	41.5	42	42.5	43	43.2	43.4	43.6
FRONT SHOULDER TO WAIST	39	39.5	40	40.5	41.3	42.1	42.9	43.7	44.5	45	45.5	46
ARMHOLE DEPTH	20	20.5	21	21.5	22	22.5	23	23.5	24.2	24.9	25.6	26.3
WAIST TO KNEE	57.5	58	58.5	59	59.5	60	60.5	61	61.25	61.5	61.75	62
WAIST TO HIP	20	20.3	20.6	20.9	21.2	21.5	21.8	22.1	22.3	22.5	22.7	22.9
WAIST TO FLOOR	102	103	104	105	106	107	108	109	109.5	110	110.5	111
BODY RISE	26.6	27.3	28	28.7	29.4	30.1	30.8	31.5	32.5	33.5	34.5	35.5
SLEEVE LENGTH	57.2	57.8	58.4	59	59.5	60	60.5	61	61.2	61.4	61.6	61.8
SLEEVE LENGTH (JERSEY)	51.2	51.8	52.4	53	53.5	54	54.5	55	55.2	55.4	55.6	55.8
Extra measurements (garments)												
CUFF SIZE SHIRTS	21	21	21.5	21.5	22	22.5	23	23.5	24	24.5	25	25.5
CUFF SIZE, TWO-PIECE SLEEVE	13.25	13.5	13.75	14	14.25	14.5	14.75	15	15.25	15.5	15.75	16
TROUSER BOTTOM WIDTH	21	21.5	22	22.5	23	23.5	24	24.5	25.4	26.2	27	27.8
JEANS BOTTOM WIDTH	18.5	18.5	19	19	19.5	20	20.5	21				

Size charts for tall or short women have each vertical measurement adjusted as follows:

SHORT WOMEN 152cm-160cm (4ft 11 1/2in-5ft 2 1/2in)		TALL WOMEN 170cm-178cm (5ft 6 1/2in-5ft 9 1/2in)	
NAPE TO WAIST	-2cm		+2cm
SCYE DEPTH	-0.8cm		+0.8cm
SLEEVE LENGTH	-2.5cm		+2.5cm
WAIST TO KNEE	-3cm		+3cm
WAIST TO FLOOR	-5cm		+5cm
BODY RISE	-1cm		+1cm

Standard Body Measurements

Boys and girls, 92cm-116cm height: approximate age 2-6 years

Important note The standard measurements have been calculated from a measurement survey of children's body measurements. They have been calculated so that when they are used to construct the blocks, the blocks will fit approximately 75% of children in the height interval. The measurements on the chart have been marginally adjusted for easy size labelling and to give sensible grading intervals. However the balance over a range of sizes has been maintained.

A	HEIGHT	92	98	104	110	116
A	APPROXIMATE AGE	2	3	4	5	6
B	CHEST	54	55	57	59	61
C	WAIST	53	54	55	56	58
D	HIP/SEAT	56	58	60	62	65
E	ACROSS BACK	22	22.8	23.6	24.4	25.2
F	NECK SIZE	26.4	27	27.6	28.2	28.8
G-H	SHOULDER	7	7.4	7.8	8.2	8.6
I	UPPER ARM	18	18.4	18.8	19.2	19.6
J	WRIST	13	13.2	13.4	13.6	13.8
K-L	SCYE DEPTH	12.6	13.2	13.8	14.4	15
K-M	NECK TO WAIST	22	23.2	24.4	25.6	26.8
M-N	WAIST TO HIP	11.4	12	12.6	13.2	13.8
K-O	CERVICAL HEIGHT	75.5	80.8	86.1	91.4	96.7
M-P	WAIST TO KNEE	31	33	35	37	39
Q-R	BODY RISE	16.5	17.3	18.1	18.9	19.7
S-O	INSIDE LEG	38	42	45	48	52
H-T	SLEEVE LENGTH	32	34.5	37	39.5	42
U	HEAD CIRCUMFERENCE	51	51.6	52.2	52.8	53.4
V	VERTICAL TRUNK	97	101	105	109	113
Extra measurements (garments)						
	CUFF SIZE, TWO-PIECE SLEEVE	10	10.2	10.4	10.6	10.8
	CUFF SIZE, SHIRTS	15.4	15.6	15.8	16	16.2
	TROUSER BOTTOM WIDTH	15.5	16	16.5	17	17.5
	JEANS BOTTOM WIDTH	13.5	14	14.5	15	15.5

Boys from the age of four start to develop larger waists and smaller hips than girls. The size chart above should be used for garments for both sexes. Manufacturers of boys' wear only may wish to use the waist and hip measurements shown below.

Measurements for boys' wear only						
C	BOYS' WAIST	53	54	55	57	59
D	BOYS' HIP/SEAT	56	58	60	62	64