PRODUCTION AND QUALITY CONTROL IN THE GARMENT INDUSTRY

STUDY NOTES

- India's garment industry is prominence source of clothing at global fashion trends.
- · About trillion of garments industry are placed in India.
- One fourth of the volume of government. production in India goes into export market and only three fourth for domestic consumption.
- Apparel production takes place in four steps versus procurement and raw material, laying and cutting of fabric, assembly of the product and last one is finishing and packaging of the product.
- Production refers to the process by which products can be made in large number using the same process.
- · Production is also known as mass production.
- The concept of mass production was first used to make the uniform for American civil war.
- · Before the invention of the sewing machine all garments were made by hand.
- Apparel production take place in four stages first one is procurement of raw material, laying and cutting of fabric, assembly of product and last stages finishing and packaging of the garment.
- Procurement and inspection of raw material include fabric and trends and to find out default or defects in the fabric. Defects can be arised from yarn fault, weaving fault, dyeing fault, finishing fault.
- To know the fabric stability and level of its acceptance and rejection is known from the fabric inspection and testing.
- Epi refers to ends per inch which is the density of fabric measured by number of warp yarn.
- · PPI refers to picks per inch
- GSM means grams per square metre which is the density of knitted fabric.
- Number of work and with the ones in a square inch of woven fabric is called as thread count.
- Second stage is laying and cutting of fabric material which involves the steps of marker plan, spreading, marking, cutting and bundling.
- The second step in the production of garment is the planning and processing of the cutting of the fabric.
- After that garment pieces are sent to the assembly or stitching section in which sewing machines perform their work.
- Single needle or lock stitch machine uses to thread to do the stitching.
- Lock stitch is reversible and very stable and in flexible stage.
- Process of assembly is the way in which number of multiple pieces of garments put together to make complete garment. Tailor system, team working and unit production system are the way of making the garment.
- Finishing process includes inspection, stain removal, repair and ironing and folding of the garment.
- Packaging of government can be done as a hanger packed and fold packed; these type of packing is dependent
 on the specification of the buyer, display technique, bulk of garment, piece of garment etc.
- · Quality of the product is defined as fitness for use.
- Quality of the product is ensured by adopting proper procedure of work, selection and use of appropriate
 machinery, training of manpower and inspection of product.
- Primary requirement to excel in the garment production are knowledge of the product, working knowledge of process, machinery knowledge, understanding of human resources.
- Quality inspector, production planning, quality assurance industrial engineering, man power training and enterprise
 would be the scope in the field of garment industry.

QUESTION BANK

MULTIPLE CHOICE QUESTIONS

1	The garment industry of Inc. (a) 1 trillion	dia consists of (b) 5 trillion	(c) 8 trillion	(d) 10 trillion				
2	What is the overall volume	` '	•		(d) To unifor				
	(a) One third	(b) One fourth		One fifth	(d) One eighth				
3.	that each product made is identical in all respects.								
	(a) Production	(b) Mass production	(c)) Product production	(d) Process development				
	Apparel production is done (a) 31	(b) 2) 4	(d) 1				
5.	Which of the following is n (a) Procurement and inspect (c) Assembly of product		(b)	ction?) Laying and cutting off) Communication and ar					
6.	Fabric defects can be class: (a) Defects	ified on the basis of (b) Inspection		Trims	(d) Faults				
7.	Which of the following is n (a) Yarn faults	ot included in the source (b) Weaving faults		aults as fabric defects Dyeing faults	(d) Processed faults				
8.	Which of the following defe (a) Coarse end and fine end (c) Slub		(b)	Fuzz and fuzz balls All of these					
9.	Defects arising from weaving (a) Bar and barre (c) Broken end and float	g faults are		Bias and bowed filling All of these					
10.	Which of the following is not (a) Colour run	ot a defect arising from d (b) Shaded	-	g faults? Bleach	(d) Smash				
11.	What are the defects arising (a) Baggy and chafe (c) Tentering marks	` '	(b)	Tears, crease and wrink All of these	, ,				
12.	What is the most important s (a) Fabric inspection	steps in the process of pr (b) Quality	oduc (c)	tion as it defines the fin	al quality of the product? (d) Transportation				
13.	Ppi and Epi stands for (a) Picks per inch and engir (c) Picks per inch and ends	-		pixels per inch and end None of these	•				
14.	GSM stands for (a) Grab per square metre (c) Griefs per square metre			Grams per square metre None of these					
15.	The laying and cutting of falt (a) Marker plan and spreadin (c) Bundling		(b)	Marking and cutting All of these					
16.	is known as	es on fabric in such a man (b) Marker			abric per garment is optimised				
	(a) Sprouding	(U) INIAIREI	(c)	Marking	(d) Cutting				

17.	The final product of the spreading process is called (a) Edge (b) Lay	(c)	Monitor	(d) None of these				
18.	The process of assembly includes (a) Tailor system (c) Unit production system		Team working or modu All of these	le system				
19.	is the process of preparing any product (a) Finishing (b) Packaging	for d (c)	ispatch from one place t Transportation	o another. (d) Warehouse				
20.	The quality of the product is ensured by (a) Adopting proper procedure of work (c) Trained manpower		Use of appropriate mac. All of these	hinery				
21.	(a) Coarse end (b) Fuzz balls	(c)	Slub /	(d) Bar				
22.	Cost of raw material in garments is%. (a) 40 (b) 50	(c)	70	(d) 90				
	Number of warp and west yarn in a square inch of w (a) GSM (b) Thread count	(c)	EPI	(d) PPI				
24.	Which of the following is the cheapest and easily ava (a) Straight knife machine (c) Round knife	(b)	e mechanised cutting app Band knife None of these	paratus?				
25.	Which of the following is an incorrect way to ensure (a) Procedure of work(c) Price of the product	(b)	ity of the product? Use of machinery Inspection of product a	t various stages				
26.	is the process of solving the problem with a Quality assurance (b) Quality control	ith th (c)	ne aim to get zero defect Quality management	product. (d) Problem of quality				
27.	TQM refers to (a) Totality Quantity Management (c) Total Quality Management		Total Quantity Manager Total Quality Monitorin					
28.	Which term is used to define the garment as "fitness (a) Quality of the product (c) Monitoring of product	(b)	use"? Quantity of product Controlling of product					
29.	The finishing process of garments does not include (a) Stain (b) Ironing	(c)	Pricing	(d) Folding				
30.	The packaging of the garment differs from packaging (a) False (c) Can't say	(b)	True Sometimes true sometimes	mes false				
31.	Arrange the steps of planning and processing of fabric cutting in sequence 1. Spreading 2. Marker plan 3. Cutting 4. Bundling 5. Marking							
	Choose correct option. (a) 1, 2, 4, 3, 5 (b) 2, 1, 3, 4, 5	(c)	2, 3, 1, 5, 4	(d) 2, 1, 5, 3, 4				
	Which technique should be used for marker planning (a) CAD system (b) CDA system	(c)	ADC system	(d) Auto designing				
33.	Which type of machine uses two threads to do the another enters from the bottom through bobbin? (a) Chain stitch (c) Reversible machine	(b)	hing in which one enter Lock stitch machine Computerized machine	s the fabric from the top and				
34.	Garment manufacturing industries uses (a) Tailor (b) Manpower	syste	_	arment. (d) Module				

35.	Which of the following Indian institute provides education in field of textile and fashion industry? (a) National Institute of Fashion Technology (b) Pearl Academy of Fashion Delhi (c) Ambedkar University, Delhi (d) Apparel and Leather Technique Training College, Ahmedabad														
26			_	_	_	ш	iedabad								
30.	Which type of finishing is done on Denim fabric? (a) Sand wash (b) Light wash						(c) Mud wash (d) Hand wa					ash			
37.	Lock stitch is reve (a) Stitching		(c) Cutting (d) Weaving												
38.	(a) PPI		by number of yarn in one inch of woven fabric. (c) GSM (d) EFI												
39.	In which year sew (a) 1843	(((c) 1833 (d) 1933												
40.	(a) 1843(b) 1863First mass production in textile industry was used for(a) Uniform of American civil war(c) Dress for king														
41.	Chafe defects refer to (a) Finishing is not uniform (c) Fabric not lie flat						b) Fabric has been damaged by abrasion d) Short length of fabric								
42.	The lengthwise yarns in a woven fabric are known as (a) Wales (b) Weft yarn						(c) Warp yarn (d) Courses								
43.	Yarn count is deno (a) Ag	ted by	(b) Gm		(0	;)	Xe				(d) No	e '			
Input Text Based MCQs															
Read	the passage and a	nswer th	e questions	that fol	low (44	to	45).	done en de en La companya de la companya de en d		l layer to job				2015-21-012-2	
Apparel industry is fashion driven and continuously changing with the trend. Consumers are more aware and demanding with the development of media and advertisement. Now a days consumer have more choices in quality design and price due to large apparel industry. When fabric is free from any fault or different then it is considered as "OK" fabric. The acceptance or rejection of fabric depends on the final product of the garment i.e. style, functionality, performance etc. Various test are also conducted to know the suitability of the fabric colour fastness test, thread count, fabric, weight shrinkage, flame retardant etc. 44 are the characteristics of the product that are certified figure given by standardised and recognised agencies which is mandatory to followed. (a) Tolerance (b) Standard (c) Quality assurance (d) Quality control															
45.	What is the use of (a) Check the quar	_	. /	ts indust	ry?	_	Control				(d) Co				
	(a) Check the quan	illy	(b) Check				Control	me q	uamy		(a) Cc	niroi	me qu	annty	
Multi	ple Choice Question	ns		Α	NSWER	RS	•								
	(a) 2. (b)	3. (a)	4. (c)	5. (d	6.	(d) 7.	(d)	8.	(d)	9.	(d)	10.	(d)	
	1 /	13. (c)	14. (b)	15. (d		,	17.	(b)	18.	(d)	19.		20.	, ,	
		23. (b)	24. (a)	25. (c				(c)	28.		29.		30.	` /	
		33. (b) 43. (d)	34. (d)	35. (c	36.	(a	37.	(a)	38.	(b)	39.	(c)	40.	(a)	
Input Text Based MCQs															
_	(b) 45. (c)														