Scheme – I

Sample Question Paper

Program Name : **Diploma in Fashion and Clothing Technology**
Program Code : **DC**
Semester : **Fifth**
Course Title : **Production Management in Garment Industry**
Max. Marks : **70** **Time : 3 Hrs.**

22573

Instructions:
(1) All questions are compulsory.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full / Maximum marks.
(4) Assume suitable data if necessary.
(5) Preferably, write the answers/ attempt the questions in sequential order.

Q.1) Attempt any FIVE of the following. **10 Marks**

a) Define time study.
b) Define 'ergonomics'.
c) Classify control charts.
d) State objectives of PPC.
e) Define types of floats.
f) Define maintenance.
g) Suggest type of maintenance for pressing equipment.

Q.2) Attempt any THREE of the following. **12 Marks**

a) Draw man-type process flow chart for collar making.
b) Enlist macro and micro level PPC functions and explain any one.
c) Give Fulkerson's rule for network construction.
d) Explain graphical representation of break-even point.

Q.3) Attempt any THREE of the following. **12 Marks**

a) State one example of each type of allowance.
b) Give formulae to calculate CL, LCL and UCL for X-bar and R-bar chart.
c) Analyze the production cost factors for basic formal shirt.
d) Describe procedure to calculate maintenance cost index with suitable example.

Q.4) Attempt any THREE of the following. **12 Marks**

a) Write any 4 applications of ergonomics in garment industry.

b) Differentiate between CPM and PERT.

c) Give significance of profit-volume ratio and graph in break-even analysis.

d) Explain cost classification with suitable examples.

e) Give procedure to evaluate maintenance performance in sewing department.

Q.5) Attempt any TWO of the following. **12 Marks**

a) Calculate standard time for following data-

	Cycle Time in min.		
Elements	1	2	3
A	1.5	6.0	11.6
B	2.1	6.7	12.2
C	4.6	10.0	14.7

Take allowances 17% and PR 90%.

b) Give formulae to calculate CL, UCL and LCL for *p, nP* and c charts.

c) A small project is composed of time activities whose estimates are given below-

Activity	A	B	C	D	E	F	G	H	I
To	2	2	4	2	2	3	2	5	3
Tm	2	5	4	2	5	6	5	8	6
Tp	8	8	10	2	14	15	8	11	15

Activities A, B and C can start simultaneously. Activity D follows activity A while E follows B. D and E are followed by G while F is dependent on C. H depends on D and E. I depend on F and G.
Calculate expected project duration.

Q.6) Attempt any TWO of the following. **12 Marks**

a) Explain the steps for forward and backward computations in CPM with relevant example.

b) Explain advantages and limitations of break-even analysis.

c) Describe various costs of maintenance and state advantages of maintenance.

Scheme – I

Sample Test Paper - I

Program Name : **Diploma in Fashion and Clothing Technology**

Program Code : **DC**

22573

Semester : **Fifth**

Course Title : **Production Management in Garment Industry**

Max. Marks : **20** **Time : 1 Hour**

Instructions:

(1) All questions are compulsory.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full / Maximum marks.
(4) Assume suitable data if necessary.
(5) Preferably, write the answers/ attempt the questions in sequential order.

Q.1 Attempt any FOUR. **08 Marks**

a) Define method study.
b) Define ergonomics.
c) Enlist the types of allowances in work study.
d) State purpose of control charts for attributes.
e) Define PPC.
f) Write significance of acceptance sampling.

Q.2 Attempt any THREE. **12 Marks**

a) Give man type process flow chart for pocket attaching.
b) Explain steps in time study.
c) Explain functions of PPC.
d) In an automatic filling process, 500gms of certain liquid was to be filled in bags. The permissible variation is + 5gms.for investigating the process capability, 5 bags were taken at random from each batch for 10 successive batches and the following result were found.

Batch	1	2	3	4	5	6	7	8	9	10
Mean gms	501	498	500	503	503	500	497	502	503	496
Range	3	4	2	4	3	5	4	2	6	4

Plot X-bar and R-bar chart.
Take; A2=0.58, D3=0, D4=2.11

Scheme - I

Sample Test Paper - II

Program Name : **Diploma in Fashion and Clothing Technology**

Program Code : **DC**

22573

Semester : **Fifth**

Course Title : **Production Management in Garment Industry**

Max. Marks : **20** **Time : 1 Hour**

Instructions:

(1) All questions are compulsory.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full / Maximum marks.
(4) Assume suitable data if necessary.
(5) Preferably, write the answers/ attempt the questions in sequential order.

Q.1 Attempt any FOUR. **08 Marks**

a) Define slack of an event.
b) Enlist types of activities in network analysis.
c) Define cost.
d) Give classification of cost.
e) State objectives of maintenance.
f) Give significance of TPMP table.

Q.2 Attempt any THREE. **12 Marks**

a) Give Fulkerson's rule for network construction.
b) Explain BEP with graphical representation.
c) Describe types of maintenance in brief.
d) Construct a network diagram and find out critical path.

Activity	Duration (days)	Immediate Predecessors
A	4	-----
B	2	-----
C	5	A
D	11	A,B
E	8	C
F	3	D
G	2	E,F