

# BOARD OF TECHNICAL EDUCATION

PORVORIM-GOA

November, 2025 Examinations

Programme: **Garment Technology**

Subject: **Crafts of India (GA513)**

Time Duration: **3 Hrs.**

Max. Marks: **75**

Instructions: 1) All questions are compulsory.  
2) Figures to the right indicate full marks.  
3) Assume suitable additional data if required.

**Q.No.1. Answer the following Questions:**

**1x15=15**

- Why is Indian folk art an important part of the nation's culture?
- Name four ancient tribal crafts of India.
- Explain the Jhuker pottery of India.
- Describe the use of the Potter's Wheel.
- Why is Uttar Pradesh known for its black pottery?
- Explain the term 'Kagazi Mohallas'.
- State four properties of metals used in ancient metal crafts.
- What is the silver filigree work of Odisha called and why?
- Explain the craft of Meenakari.
- What is Jadau work? Explain.
- Which fiber is called the 'golden fiber' and why?
- Name four Indian states that produce bamboo.
- Describe a Rug.
- What do you understand by the term "Jamawar".
- Name four promising areas in the craft sector in India.

**Q.No.2. Write short note on any four:**

**4 x 3 = 12**

- What do you understand by the term "Handicraft"? Explain.
- Write the role of the craft community in India.
- Give a brief about the history of Indian crafts.
- Explain the terms artisan, craftwork and artifact.
- What are the various classifications in the craft sector? Describe them.

**Q.No.3. Answer any three of the following Questions:**

**3 x 4 = 12**

- State the various ways in which clay can be used in preparation of pottery.
- Explain the wheel turned pottery and the hand modeling techniques used in clay crafts.
- Write short notes on: Coiling technique and slip casting technique in clay formation
- What do you know about the clay crafts of central India and name the famous items produced here.
- Explain the process followed in bone crafting from ancient to modern times in India.

**Q.No.4. Answer any two of the following Questions:**

**2 x 6 = 12**

- Give detailed report on the various metal crafts seen in ancient India. Explain their uses and importance.
- Explain details about the following metal crafts: Tanjore metal plate and Bidri metal craft
- Name the various traditional types of jewellery worn in the states of: Gujarat and Maharashtra.  
Use illustration wherever necessary.
- Write a description of the jewellery worn in modern day India compared to the jewellery worn in ancient India.

...2/-

# BOARD OF TECHNICAL EDUCATION

PORVORIM-GOA

November, 2025 Examinations

Programme: **Garment Technology**

Subject: **Industrial Garment Manufacture (GA304)**

Time Duration: **3 Hrs.**

Max. Marks: **75**

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

3) Assume suitable additional data if required.

**Q.No.1. Answer any ten of the following Questions:**

**10x1.5=15**

- State main difference between knit and nonwoven fabric.
- Define job-work unit with an example.
- Define 6 Sigma.
- Give two objectives of SITRA.
- State three main duties of Purchase Manager.
- List out the equipments required for sampling section.
- Elaborate section handling.
- Define working of side bed machine.
- Define acid wash and its uses in brief.
- How do you define product pricing?
- Draw symbols for Tumble dry and Bleach iron.

**Q.No.2. Write short note on any three:**

**3 x 4 = 12**

- Industrial garments
- Woven garments
- Old age garments
- Motion study
- Laser cutting machine
- Pressing machines

**Q.No.3. Answer any two of the following Questions:**

**2 x 6 = 12**

- Discuss in detail job-work unit functions and state its advantages.
- Explain briefly stage, internal and external inspection.
- Name personnel required in purchase section and discuss their duties.

**Q.No.4. Write short note on any three:**

**3 x 4 = 12**

- Cutting section of garment industry
- Stepped spreading
- Fusing machines
- Pattern master
- Packing materials

**Q.No.5. Answer any two of the following Questions:**

**2 x 6 = 12**

- Discuss in detail straight line conveyor belt.
- Discuss in detail UPS system with its advantages and disadvantages.
- Prepare a yearly calendar for a fashion show to be conducted by a design house.

**Q.No.6. Answer any three of the following Questions:**

**3 x 4 = 12**

- Discuss in detail washing cycles for denim garments.
- Prepare a specification sheet for ladies high waist yoked trouser.
- How garment defects are classified, discuss.
- Discuss method of garment costing.

\*\*\*\*\*



# BOARD OF TECHNICAL EDUCATION

PORVORIM-GOA

November, 2025 Examinations

Programme: **Common**

Subject: **Environmental Studies (GC203)**

Time Duration: **3 Hrs.**

Max. Marks: **75**

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

3) Assume suitable additional data if required.

**Q.No.1. Answer any five of the following Questions:** **5 x 3 = 15**

- a) What is Ecological Footprint?
- b) Name any six Biogeographical zones of India.
- c) What is land degradation? List the methods of control of land degradation.
- d) How is high activity radioactive waste disposed?
- e) What are secondary air pollutants? Give example.
- f) Explain the role of decomposers in an ecosystem.
- g) State any six rules you will follow as not to violate Motor Vehicle Act.

**Q.No.2. Answer any two of the following Questions:** **2 x 6 = 12**

- a) Write a note on Environment Impact Assessment.
- b) Discuss the environmental ethics to be developed as true earth citizen.
- c) State any six Human Rights.

**Q.No.3. Answer any two of the following Questions:** **2 x 6 = 12**

- a) Explain primary ecological succession.
- b) Write a note on In-Situ or Ex-Situ method of conservation of biodiversity.
- c) Describe: i) Desert Ecosystem ii) Ocean Ecosystem

**Q.No.4. Answer any two of the following Questions:** **2 x 6 = 12**

- a) Discuss the effect of excessive use of synthetic pesticides in modern agriculture on environment.
- b) Discuss any six drawbacks of construction of dams.
- c) What are the causes of deforestation? Explain the steps taken for forest management.

**Q.No.5. Answer any two of the following Questions:** **2 x 6 = 12**

- a) What is Green House effect and Global Warming? Explain its effects.
- b) Discuss how pathogens and heavy metals in polluted water affect human health.
- c) Explain the method of composting of wet waste and methods of waste utilization with examples.

**Q.No.6. Answer any two of the following Questions:** **2 x 6 = 12**

- a) Discuss the effects of noise pollution on human health. What precautions will you take to protect yourself from noise pollution?
- b) Discuss the short term and long term effects of marine water pollution due to oil spills.
- c) Explain the role of Information Technology in environment.

\*\*\*\*\*

# BOARD OF TECHNICAL EDUCATION

PORVORIM-GOA

November, 2025 Examinations

Programme: **Garment Technology**

Subject: **Textile Fibres (GA104)**

Time Duration: **3 Hrs.**

Max. Marks: **75**

Instructions: 1) All questions are compulsory.  
2) Figures to the right indicate full marks.  
3) Assume suitable additional data if required.

**Q.No.1. Answer the following Questions:**

**15x1=15**

- Name the three sources from where the natural fibers are obtained.
- What are cotton blends?
- Name any two mineral based fibers.
- What is pulled wool?
- In which countries is Jute mainly grown?
- What products are made from Angora rabbit hair?
- What are cotton linters?
- Name two trademarks of polyester fibers.
- What is the effect of heat on acetate fibers?
- Draw the microscopic view of cotton.
- What is the odor of cotton on burning?
- What are grey goods?
- What finish is given to cotton to make it look like silk?
- Name a rapped fabric.
- What do you mean by a temporary finish?

**Q.No.2. Answer any three of the following Questions:**

**3 x 4 = 12**

- Draw the classification chart of cellulosic fibers with examples and write three characteristics of cotton fiber.
- What are the popular features of synthetic fibers?
- Draw the classification table of fibers based on origin. (source)
- Define textile fibers and explain natural fibers.

**Q.No.3. Answer any three of the following Questions:**

**3 x 4 = 12**

- Explain the cultivation of cotton fibers.
- Write four differences between wool and cotton fiber.
- Discuss the properties of wool in terms of: i) Strength or durability ii) Warmth iii) Absorbency
- Draw the life cycle chart of silk worm and explain the effect of heat on silk.

**Q.No.4. Answer any three of the following Questions:**

**3 x 4 = 12**

- Draw the flowchart of viscose rayon manufacturing process and explain the Steeping process.
- What is Melt spinning?
- Explain the effect of heat, mildew and dyes on acrylic fibers.
- Why is Nylon fiber used in the making of fishing nets or ropes?

**Q.No.5. Answer any three of the following Questions:**

**3 x 4 = 12**

- Describe three tests used to differentiate cotton and wool.
- What is a feeling test? What are the limitations of feeling test?
- Draw the microscopic view of wool and explain.
- Explain the test used to distinguish silk from wool.



# BOARD OF TECHNICAL EDUCATION

PORVORIM-GOA  
November, 2025 Examinations

Programme: **Garment Technology**

Subject: **Textile Construction (GA302)**

Time Duration: **3 Hrs.**

Max. Marks: **75**

Instructions: 1) All questions are compulsory.  
2) Figures to the right indicate full marks.  
3) Assume suitable additional data if required.

**Q.No.1. Answer any ten of the following Questions:**

**10x1.5=15**

- Name different methods of spinning yarns.
- What do you understand by fineness of yarn?
- Name any three plain weave fabrics.
- Define dobby attachment.
- What is the function of reed and shuttle in loom?
- What are end uses of honey comb weave fabrics?
- Draw a neat diagram of Rib knit.
- Name different types of knitting machine needles.
- How do you explain thermal bonding?
- Define Eco friendly textiles.
- What type of fabrics is used as defence textiles?

**Q.No.2. Answer any three of the following Questions:**

**3 x 4 = 12**

- Draw a flow chart of blending process of yarn formation using cotton and polyester yarn.
- What are the advantages of ring spun yarn over open end spun yarn?
- Write short note on yarn twists.
- Explain novelty yarns.

**Q.No.3. Answer the following Question:**

**4 x 2 = 8**

- Construct any four of the following weaves, along with draft:  
i) 4x2 right hand twill ii) 7 end satin weave iii) 2/3 weft rib irregular wave iv) Herringbone weave v) Hulk -a - back weave
- Write short note on Khadi India .

**(04)**

**Q.No.4. Answer any three of the following Questions:**

**3 x 4 = 12**

- Construct honeycomb weave and list four uses of same woven fabric.
- Write short note on Nano textiles.
- Explain tucked-in-selvedge and leno selvedge and uses of selvedges.
- Explain EPI and PPI with examples.

**Q.No.5. Write short note on any four:**

**4 x 3 = 12**

- Raschel knit fabrics
- Single jersey knit fabrics
- Define port and knit stitch
- Properties of knit fabrics
- Advantages of knit fabrics over woven fabrics

**Q.No.6. Answer any four of the following Questions:**

**4 x 3 = 12**

- Thermal bonding of nonwoven fabrics
- Air-laid web formation
- Finishing process of nonwoven fabrics
- Spun-laid web formation
- Continuous fusing systems
- Recycled textiles

\*\*\*\*\*