

Registration Number

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INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY

Bargarh/Fulia/Guwahati/Jodhpur/Salem/Varanasi/Champa/Kannur/KHTI-Gadag/SPKM-Venkatagiri

Diploma in Handloom & Textile Technology

NOV/DEC-2024 SEMESTER EXAMINATION

(Regulation-2021)

Semester : VI

Time:3 Hours

Course Code & Title : **HS303 Entrepreneurship and Start-Ups**

Maximum Marks: 100

PART-A

(10×2=20 Marks)

Answer all the questions within two to three sentences

1. Define the term Entrepreneurship.
2. What do you mean by Start-ups?
3. List the types of start-ups.
4. What do you understand by activity map?
5. Write the steps involved in idea to start-ups.
6. Define Marketing.
7. Define organization structure.
8. What is meant by Recruitment?
9. Expand MSME.
10. Define the term bankruptcy.

PART-B

((6+10)×5=80 Marks)

Answer all the questions in detail

11. A. Brief the Traits of an entrepreneur. (6)
B. Explain the types of business structures. (10)
(OR)
C. Elucidate the government schemes for Textile Entrepreneurs. (6)
D. Explain the Handloom Promotion programs. (10)
12. A. Prepare the Activity map for business. (6)
B. How to discover and visualizing the business idea. (10)
(OR)
C. How to implement the business ideas. (6)

- D. Explain the business plan and steps involved in business plan. (10)
13. A. How the strategy development helps improve the business. (6)
B. Brief the steps involved in Market Analysis with suitable example. (10)
- (OR)**
- C. Brief the market mix. (6)
D. How to perform the Risk analysis – Explain. (10)
14. A. Explain the sources of recruitment. (6)
B. Explain the Organization Structure and its types. (10)
- (OR)**
- C. Explain the financial management of business, and its importance. (6)
D. Explain the concepts related to management of talent. (10)
15. A. Brief the steps involved in effective Communication of Ideas to potential investors. (6)
B. Write about the financing methods available for start-ups in India (10)
- (OR)**
- C. Write the importance of Patenting and Licenses for preventing of business idea. (6)
D. Brief about the available exit strategies for entrepreneurs. (10)

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Diploma in Handloom & Textile Technology

NOV/DEC-2024 SEMESTER EXAMINATION

(Regulation-2021)

Semester : 06

Time:3 Hours

Course Code & Title : **HTPE307 Technological Developments in Handlooms** Max. Marks: 100

PART-A

(10×2=20 Marks)

Answer all the questions within two to three sentences

1. What are the objectives of Winding?
2. Name the Packages used as input and output in winding.
3. List the parts to be retained as wooden made, in Angle iron Frame loom.
4. Why is a short length of single yarn warp used for handloom?
5. Define 'Let-off and Take-up'.
6. When do you use the Dobby shedding device in Handloom?
7. How do you weave the cloth with a solid colour effect?
8. List the advantages of using multiple Butta weaving sley.
9. Define 'Semi-automatic handloom'.
10. Write down two merits of electromagnetic lifting mechanism for heald shaft.

PART-B

((6+10)×5=80 Marks)

Answer all the questions in detail

11. A. List the objectives of adopting technological developments in handloom (six points) (6)
B. Draw a full-page layout accommodating 10 pit looms accomplished with all the preparatory and post-loom sections. (10)
- (OR)**
- C. Draw a flow chart showing the different preparatory processes followed in handloom (6)
D. With a neat sketch showing the path of yarn explain the working of the single-spindle motor operated pirn cum cheese winding machine (10)

12. A. Draw the Side view of a Pit loom showing the path of the warp sheet (6)
B. With a neat sketch, explain the additional mechanisms added to convert ordinary handloom to improved handloom (10)

(OR)

- C. Draw the Side view of a Frame loom showing the path of the warp sheet (6)
D. With a neat sketch, explain how the long-length ball warp is made into the warp beam of the required width using the In-house beam-warping machine (10)

13. A. What is the advantage of using the Plunger mechanism for Durrani weaving? (6)
B. Explain vertical hook handloom Dobby with neat sketch. Write its merits and demerits. (10)

(OR)

- C. What is the advantage of using the Worm wheel Take-up motion in handloom? (6)
D. Draw the line sketches of the Single-side Drop-box and the Double-side Drop-box systems. Explain the use of these two systems. (10)

14. A. Draw a colour sketch showing the solid colour border, body and pallu of a silk saree (6)
B. With a neat sketch, explain the working principle of Solid-border weaving sley (10)

(OR)

- C. How is the Catch-cord technique used to weave the Solid colour border? (6)
D. With a neat sketch, explain the method of using multiple jacquards to weave the contemporary silk saree. (10)

15. A. Explain automated mechanism of Itchalkaranchi Loom. (6)
B. With a neat sketch, explain the working principle of the pedal-operated intermittent Pneumatic lifting mechanism for operating the jacquard (10)

(OR)

- C. Explain the automated electromagnetic heald lifting mechanism. (6)
D. With a neat sketch, explain the working principle of the pedal-operated intermittent Motor lifting mechanism for operating the jacquard (10)

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Diploma in Handloom & Textile Technology

NOV/DEC-2024 SEMESTER EXAMINATION

(Regulation-2021)

Semester : 06

Time:3 Hours

Course Code &Title : **HTPE308 Traditional Handloom Textiles of India** Max. Marks:100

PART-A

(10×2=20 Marks)

Answer all the questions within two to three sentences

1. What are the raw materials (yarns) used in Banarasi Brocade Saree?
2. Baluchari Silk Saree is originated from which state?
3. Name the technique used to produce Bomkai Saree.
4. Name any two important unique characteristics of Kota Doria Saree.
5. List any two important properties of Venkatgiri Cotton Saree.
6. What is the technique used for producing Jamdani Silk Saree?
7. What is meant by IHB?
8. What is the full form of GOTS?
9. Write the definition of Handloom as per the Handloom Act, 1985.
10. Give an example of 2 products which come under the Handloom (Reservation of articles for production) Act, 1985.

PART-B

((6+10)×5=80 Marks)

Answer all the questions in detail

11. A. Write the production technique used for making Banarasi Brocade Silk Saree. (6)
B. Explain the product specifications, production techniques and unique characteristics for making Baluchari Silk Saree. (10)
(OR)
C. How Bomkai Saree can be differentiated from Chanderi Saree? (6)
D. Write the product specifications, production techniques and unique characteristics of Jamdani Cotton Saree. (10)
12. A. Write short notes on special features of a Kota Doria Saree. (6)
B. Explain the product specifications, production techniques, raw materials and unique characteristics of Kancheepuram Silk Saree. (10)

(OR)

- C. Write about Kani Pashmina Shawl and its special features. (6)
- D. Explain the product specifications, production techniques, raw materials and unique characteristics of Pochhampally Ikat Saree. (10)
13. A. Write short notes on special features of Tangail Cotton Saree and Tanchoi Silk Saree. (6)
- B. Explain the product specifications, production techniques and uniqueness of Venkatgiri Cotton Saree. (10)
- (OR)**
- C. Write short notes on special feature of Balaramapuram Cotton Saree. (6)
- D. Explain the product specifications, production techniques and unique characteristics of Uppada Jamdani Silk Saree. (10)
14. A. Write the objectives and benefits of Indian Handloom Brand. (6)
- B. Explain in detail about the standard operation procedure (SOP) to be followed from registration of new firm under Indian Handloom Brand. (10)
- (OR)**
- C. Discuss the role of office of DCH in IHB registration. (6)
- D. Write in details the objectives and scheme procedure of Handloom mark. (10)
15. A. Mention the terms and definitions of the Handloom (Reservation of articles for Production) Act, 1985. (6)
- B. Discuss in brief about the penalty for contravention under the Handloom Reservation Act, 1985. (10)
- (OR)**
- C. Write about the constitution and role of advisory committee for Handloom Reservation Act, 1985. (6)
- D. Discuss in detail about the range reserved for exclusive production in Handloom for the following products under the Handloom Reservation Act, 1985. (10)
- I. Saree.
- II. Madras Handkerchief.

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Diploma in Handloom & Textile Technology

NOV/DEC-2024 SEMESTER EXAMINATION

(Regulation-2021)

Semester : VI

Time:3 Hours

Course Code & Title : HTPE309 : Home Textiles

Maximum Marks: 100

PART-A

(10×2=20 Marks)

Answer all the questions within two to three sentences

1. List any four criteria for selection of fibres for home textiles
2. Define upholstery materials. Give examples.
3. What are all the important properties requirement for a towel?
4. Discuss on the fabric requirements on curtains.
5. List any four items in a bed linen sector.
6. What are made-ups in hospital applications?
7. What kind of fabrics are used for floor coverings? How they were made?
8. “Secondary backing materials used in carpets”. Why?
9. Why rugs and carpets are cleaned using vacuum cleaning?
10. What type of testing is required for home textiles?

PART-B

((6+10)×5=80 Marks)

Answer all the questions in detail

11. A. Define Home textiles and give in detail the various home textiles products with examples. (6)
B. Explain in detail the various fibres used for home textiles and mention their applications in different products. List their advantages and disadvantages. (10)
- (OR)**
- C. Elaborate on the different types of table mats and table linens products in home textiles. (6)
D. Write in detail with diagrams the different types of living room furnishing material products. (10)

12. A. Discuss in detail the different types of pleats used for curtains with diagram. (6)
B. Summarize the kitchen linens used for daily applications. Explain in detail with relevant diagram. (10)

(OR)

- C. What are all draperies and mention the basic properties required for draperies fabrics. (6)
D. Explain in detail about the various accessories used for draperies construction. (10)
13. A. How the thread count of a bed linen fabric is measured. Mention the regular thread count of fabrics and specifications used in bed linens. (6)
B. Explain in detail the method of Absorption test for Bed linens. (10)

(OR)

- C. List the care labeling instructions mentioned in care labels used in Bed linen products. Mention care label instructions with proper symbols. (6)
D. Explain any two pile weave structures with diagram used for bath linens and towels. (10)
14. A. Explain the different types of rugs based on different origins and manufacturing methods. (6)
B. With neat sketch, explain the manufacturing process of carpets. (10)

(OR)

- C. Discuss in detail the following techniques of carpet manufacturing. (6)
a) Needle felting b) stitch bonding c) Flocking
D. Elaborate the tufting method in carpet production with neat diagram. (10)
15. A. Explain about washing and cleaning methods of home furnishing products. (6)
B. Elaborate the method of identification of stains on the fabrics. (10)

(OR)

- C. Write short notes on the application of a) Bleaching agents b) optical brightening agents (OBA) in home textile materials. (6)
D. Explain the various testing procedures will be taken for home textile materials to confirm its quality parameters. (10)

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Diploma in Handloom & Textile Technology

NOV/DEC-2024 SEMESTER EXAMINATION

(Regulation-2021)

Semester : 06

Time:3 Hours

Course Code & Title : **HTOE305 Project Management**

Maximum Marks: 100

PART-A

(10×2=20 Marks)

Answer all the questions within two to three sentences

1. Which components make up a solid project plan? List out.
2. What is mean by rolling wave concept in PLC?
3. How budgets are framed in projects?
4. Write a note on demand forecasting.
5. What do you mean by cost of production?
6. What is cash flow statement?
7. State the meaning of payback period.
8. What does the term "economic life" mean to you?
9. What is meant by project scheduling?
10. List out the steps involved in project administration.

PART-B

((6+10)×5=80 Marks)

Answer all the questions in detail

11. A. What is meant by a project? Explain the various categories of projects with examples. (6)
B. How can a project be prioritized using a priority matrix? Give a thorough explanation of each stage. (10)
- (OR)
- C. Discuss the importance of project resource management in project success. (6)
D. What does WBS mean for project planning? Give specific explanations and examples. (10)
12. A. Why do marketing research is important in capital budgeting? Discuss. (6)

- B. Examine each demand forecasting technique in detail with suitable examples. (10)
- (OR)**
- C. Describe the components of a project's Technical Analysis. (6)
- D. Explain the capital budgeting process using concrete examples. (10)
13. A. Explain the concepts of cost estimation and cost improvement in project budgeting. (6)
- B. What is working capital? Discuss about the elements influencing the need for working capital. (10)
- (OR)**
- C. Examine the break-even analysis using the well-designed diagram. (6)
- D. Which kinds of production costs exist? Describe the production cost calculation process. (10)
14. A. What do you mean by project uncertainty? Describe the process used to manage these uncertainties. (6)
- B. Explain the techniques used in evaluating, auditing and terminating a project. (10)
- (OR)**
- C. Discuss in detail about Economic Rate of Return. (6)
- D. Explain the non-monetary factors that go into project management. Discuss how these factors to be included in NPV evaluation. (10)
15. A. What are the differences between PERT and CPM? Explain. (6)
- B. Discuss about the various project management software's that are employed to manage the projects. (10)
- (OR)**
- C. Describe why a post-project evaluation is necessary. (6)
- D. Explain the different types of project administration methods and its suitability for different projects. (10)

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NOV/DEC-2024 SEMESTER EXAMINATION

(Regulation-2021)

Semester : 06

Time:3 Hours

Course Code &Title : **HTOE307 Internet of Things**

Maximum Marks:100

PART-A

(10×2=20 Marks)

Answer all the questions within two to three sentences

1. Define Internet of Things.
2. List out the interfaces used in IoT.
3. Mention any two IoT protocols and its purpose.
4. Which network does IoT use?
5. How does Zigbee protocol works?
6. What is the purpose of Actuators in IoT?
7. Analyze on features of Raspberry Pi.
8. How to run Raspberry pi in headless mode?
9. Identify the various sensors needed in healthcare environment.
10. Give some of the applications of IoT.

PART-B

((6+10)×5=80 Marks)

Answer all the questions in detail

11. A. Describe any three types of Sensors used in IoT. (6)
B. Explain “Sensor” and its working with an example. (10)

(OR)

C. Mention the types of Actuators and explain in detail. (6)
D. Discuss about Actuator and its uses in detail. (10)
12. A. What are the applications of IoT? Explain. (6)
B. Describe the levels of IoT with an example and also draw neat and clean diagram. (10)

(OR)

C. Describe any two topologies used in sensor network. (6)

- D. Explain various communication protocols used in IoT. (10)
13. A. Write a simple Arduino program to blink a LED with 500 msec. (6)
B. Explain the architecture of Arduino Board. (10)
- (OR)**
- C. What are the benefits of Arduino programming? (6)
D. Discuss the various ways to connect sensors and actuators to the Arduino Uno Board. (10)
14. A. Illustrate the concepts involved in Raspberry Pi. (6)
B. Evaluate the Raspberry Pi board in detail with neat sketch. (10)
- (OR)**
- C. Classify the operating systems used for raspberry pi. (6)
D. Discuss in detail the significance of Data Analytics in IoT with necessary illustration. (10)
15. A. Write the various key benefits of IoT health monitoring. (6)
B. Illustrate with a neat sketch IoT design for smart health care system. (10)
- (OR)**
- C. What are the advantages of activity monitoring system? (6)
D. Explain how IoT technology used to enable the agricultural industry to increase operational efficiency, lower costs and improve the quality of their yield. (10)

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Diploma in Handloom & Textile Technology

NOV/DEC-2024 SEMESTER EXAMINATION

(Regulation-2021)

Semester : 06

Time:3 Hours

Course Code & Title : HTOE311 & Disaster Management

Maximum Marks: 100

PART-A

(10×2=20 Marks)

Answer all the questions within two to three sentences

1. Define Disaster Management.
2. Define Vulnerability in the context of Disaster Management.
3. Distinguish between Geological Disasters and Hydro-Meteorological Disasters.
4. Define Technological Disasters and provide an example.
5. Define Mitigation in the context of Disaster Management.
6. Explain the purpose of an Emergency Operation Centre (EOC) during disaster response.
7. What is the primary objective of the National Disaster Management Authority (NDMA) in India?
8. Mention two types of disasters that India is prone to due to its geo-climatic conditions.
9. What is the role of Geo-informatics in Disaster Management?
10. Define Disaster Communication System and its importance in disaster management.

PART-B

((6+10)×5=80 Marks)

Answer all the questions in detail

11. A. Explain the concept of Disaster Risk and its components. (6)
B. Discuss the differences between Disaster Management and Disaster Risk Reduction (DRR). Explain the importance of DRR in the context of sustainable development. (10)
- (OR)**
- C. Describe the relationship between Disaster and Development. (6)
D. Analyze the role of Capacity Building in enhancing community resilience to Disasters. (10)

12. A. Explain the causes and consequences of Landslides as a type of Geological Disaster. (6)
- B. Analyze the trends and consequences of Urban Disasters, focusing on building collapse and fires. Discuss mitigation strategies. (10)

(OR)

- C. Discuss the impact of Climate Change on Hydro-Meteorological Disasters. (6)
- D. Compare and contrast Biological Disasters (epidemics) and Technological Disasters (chemical accidents). Discuss the role of early warning systems in disaster management. (10)
13. A. Describe the components of the Disaster Management Cycle. (6)
- B. Analyze the paradigm shift in Disaster Management from relief-centric to risk-reduction-centric. Discuss the significance of IDNDR, Yokohama Strategy, and Hyogo Framework. (10)

(OR)

- C. Outline the key principles of the Hyogo Framework. (6)
- D. Discuss the importance of Early Warning Systems (EWS) in Disaster Management. Explain the components and benefits of EWS. (10)
14. A. Describe the key features of the Disaster Management Act, 2005, in India. (6)
- B. Analyze the significance of the National Disaster Management Plan (NDMP) in India. Discuss its key components and objectives. (10)

(OR)

- C. Outline the role of Government Agencies in Disaster management in India. (6)
- D. Discuss the role of Non-Governmental Organizations (NGOs) and Inter-Governmental agencies in Disaster management in India. Provide examples. (10)
15. A. Explain the applications of Artificial Intelligence (AI) and Big Data in Disaster Management. (6)
- B. Analyze the role of Science and Technology in Disaster Risk Reduction (DRR) in India, citing examples of initiatives and institutions. (10)

(OR)

- C. Describe the significance of Land Use Planning and Development Regulations in disaster mitigation. (6)
- D. Discuss the importance of Disaster Safe Designs and Constructions in mitigating disaster impacts, highlighting structural and non-structural mitigation measures. (10)

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Diploma in Handloom & Textile Technology

NOV/DEC-2024 SEMESTER EXAMINATION

(Regulation-2021)

Semester : **06**

Time:3 Hours

Course Code &Title : **HTOE312 MARKETING MANAGEMENT
AND FOREIGN TRADE**

Maximum Marks:100

PART-A

(10×2=20 Marks)

Answer all the questions within two to three sentences

1. Define marketing in the context of a developing economy.
2. What are the main components of the marketing mix?
3. What is consumer behaviour?
4. Name two models of consumer behaviour.
5. Mention two methods of market research.
6. Define the term 'product' in marketing.
7. What is GATT?
8. State two objectives of the World Trade Organization (WTO).
9. What is export documentation?
10. Name two types of pre-shipment documents.

PART-B

((6+10)×5=80 Marks)

Answer all the questions in detail

11. A. What is market segmentation? Explain its significance in marketing. (6)
B. Describe the steps involved in planning the marketing mix and its relevance to market success. (10)
- (OR)
- C. Explain the role of marketing in a developing economy. (6)
D. Elaborate on the concept of marketing services with suitable examples. (10)
12. A. What are the key determinants of consumer behaviour? Discuss with examples. (6)
B. Examine the importance of consumer behaviour models in marketing strategy (10)

formulation.

(OR)

- C. Describe the characteristics of the Indian consumer environment. (6)
- D. Discuss the various factors influencing consumer behaviour and their impact on buying decisions. (10)

- 13. A. Discuss the significance of pricing in the marketing mix. (6)
- B. Describe the various methods of market research and their importance in marketing decisions. (10)

(OR)

- C. Explain the difference between Wholesaling and Retailing in Marketing channels. (6)
- D. Explain the role of advertising and personal selling in the promotion mix with suitable examples. (10)

- 14. A. Differentiate between import, export, and re-export. (6)
- B. Discuss the impact of the World Trade Organization (WTO) on Global Trade with examples. (10)

(OR)

- C. Explain the importance of foreign trade in a country's economic development. (6)
- D. Explain the concept of GATT and its role in promoting international trade. (10)

- 15. A. Discuss the importance of pre-shipment and post-shipment documentation in exports. (6)
- B. Discuss the terms of sale, payment, and shipment in export documentation with examples. (10)

(OR)

- C. Explain the concept of duty drawback and its significance in export finance. (6)
- D. Explain the key components of export finance and the risks involved in export management. (10)
