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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

**APR/MAY-2025 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 Intrapreneurship.
2. Write the Difference Between Entrepreneurship and Manager
3. What do you mean by Activity map for business?
4. How to Create a New Business plan?
5. Enumerate the various stages involved in start Up new ideas.
6. How to study the Concept of Marketing Mix?
7. What do you understand by term Internal recruitment?
8. Narrate the Major elements of organisation structure
9. How to obtain license for New start Up business?
10. What is bankruptcy?

**PART-B**

(6+10)×5=80 Marks)

**Answer all the questions in detail**

11. A. Explain the various schemes available in MSME with example. (6)  
B. Discuss the Essential qualities for successful entrepreneurs in India (10)
- (OR)
- C. Explain the major role and function of Entrepreneurs in India. (6)  
D. Explain the various measures taken by Government for developing Textile Entrepreneurs in India. (10)
12. A. How to study and prepare the Activity Map for business in Current era. (6)  
B. Explain the various steps involved in business plan with suitable example. (10)

**(OR)**

- C. How to create and discover the new business idea for commercialization (6)
- D. Explain the steps involved in business plan in Textile sector. (10)
13. A. How to measure the risk factor in starting a new Business venture. (6)
- B. How to evaluate the competition and strategy development in current Business era? (10)
- (OR)**
- C. Explain how to evaluate the target market in business organisation (6)
- D. Describe the market Analysis for new product development. (10)
14. A. Explain the External sources of recruitment with example (6)
- B. Discuss the various modes of Organisation structure (10)
- (OR)**
- C. Explain the role and significance of financial organisation in modern era. (6)
- D. How to evaluate and measure the Talent people in Textile industry? (10)
15. A. Why we need patent protection in India? Give suitable reason? (6)
- B. Explain the various uses of Financial method for start up business for new Investors (10)
- (OR)**
- C. Explain the role of Exist strategies for challenging Entrepreneurs in India. (6)
- D. Discuss the steps to obtain a patent under the patent Amendment act 2005 (10)

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Diploma in Handloom & Textile Technology

**APR/MAY-2025 SEMESTER EXAMINATION**

(Regulation-2021)

Semester : VI

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. Classify various types of projects based on Industry or sector .
2. Why is the project life cycle considered important?
3. How do technical analysis impact selection of a project ?
4. What are the key elements of a good project plan ?
5. How will the cost of raw materials and supplies impact working capital requirements ?
6. Explore the importance of project financing from the perspective of organizations.
7. How will benefit cost ratio impact economic feasibility of a project?
8. What are the key components in social cost benefit analysis?
9. Enumerate any four-project management software used by contemporary organizations .
10. Why is post-project evaluation essential for assessing a project's success ?

**PART-B**

(6+10)×5=80 Marks)

**Answer all the questions in detail**

11. A. Describe the objectives of project management with suitable examples. (6)  
B. Project priority matrix is an effective tool to determine the trade-offs between three key constraints: scope, time, and cost- Discuss . (10)  
(OR)  
C. Elucidate the stages of the project life cycle for a software project . (6)  
D. Analyze the importance of work breakdown structure (WBS) for successful completion of projects . (10)
12. A. How do you perform a feasibility study, and what factors should be analyzed to assess the viability of a project? (6)

- B. Analyze how a project manager will secure funding from external sources while managing financial risks. (10)

**(OR)**

- C. Explain the different types of market analysis techniques and discuss how do they provide valuable insights for project development. (6)

- D. Precise marketing research is inevitable for understanding customer needs and preferences for a new project or product- Do you agree or not ? Discuss. (10)

13. A. How can profitability be enhanced by optimizing production costs, pricing strategies, and sales forecasts? (6)

- B. Break-even analysis is an effective method to make decisions regarding pricing, cost reduction, or production levels- Justify. (10)

**(OR)**

- C. Explain the importance of cost control in maintaining the profitability of a project with appropriate examples . (6)

- D. Analyze the key components of a projected cash flow statement and discuss how do they help in assessing the financial health of a project. (10)

14. A. Why are discounting methods generally preferred over non-discounting methods for long-term projects? (6)

- B. Analyze how project managers use risk analysis to account for uncertainty in financial estimates and forecasts. (10)

**(OR)**

- C. Why is the economic rate of return (ERR) considered as a crucial metric when evaluating projects with significant externalities, such as infrastructure or social development projects? (6)

- D. Examine the different types of risks that need to be considered when assessing a project's feasibility and financial performance . (10)

15. A. How does proper network planning help in identifying project bottlenecks and optimizing resource allocation? (6)

- B. Determining the least cost duration helps in minimizing project expenses without compromising on quality – Discuss . (10)

**(OR)**

- C. In what way, you can identify and handle activities that are on the critical path to ensure timely project completion – Explain with fair illustrations. (6)

- D. You are managing a large-scale construction project, and you are using the Program Evaluation and Review Technique (PERT) to plan and schedule tasks. As part of the planning process, you need to integrate cost mechanisms into the PERT analysis to assess the financial implications of project timelines. (10)

1.How would you integrate cost mechanisms into the PERT model for this project, and what specific cost factors would you consider? (5)

2.Why is it crucial for you as a project manager to incorporate cost considerations into the PERT analysis, and how can this integration help optimize project performance and budget management? (5)

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**APR/MAY-2025 SEMESTER EXAMINATION**

(Regulation-2021)

Semester : VI

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. What are applications of Internet of things (IoT)?
2. Why we need Actuator in IoT?
3. List the Characteristics of IPv4.
4. Bring out the important communication protocols used in IoT.
5. Mention various components present in the Arduino board.
6. What are the features of Arduino board in IoT.
7. How Raspberry Pi differs from Arduino?
8. What are the components required for designing blinking LED?
9. Give some of the applications of IoT.
10. Identify the various sensors needed in agriculture environment.

**PART-B**

((6+10)×5=80 Marks)

**Answer all the questions in detail**

11. A. Discuss various characteristics of sensors. (6)  
B. Explain classification of sensors in details (10)  
(OR)  
C. Discuss about actuator and its types. (6)  
D. Explain the challenges of IoT in detail. (10)
12. A. Write short notes on advantages and disadvantages of IoT. (6)  
B. Explain fundamental components of IoT systems and how IoT works. (10)  
(OR)  
C. Compare and contrast IPv4 and IPv6 protocols. (6)  
D. Explain any five communication protocols used in IoT in detail. (10)

13. A. What are the benefits of Arduino programming? Explain its features (6)  
B. Write a simple Arduino program to blink a LED with 500 msec. (10)

**(OR)**

- C. Write short notes on advantages and disadvantages of Arduino (6)  
D. Write Arduino code the control of the LED on PIN 12, by designing it to remain ON for 3 seconds and remain OFF for 2.5 seconds. (10)

14. A. What are the benefits of Raspberry Pi programming? Explain its features. (6)  
B. Draw and explain the Architecture of Raspberry Pi. (10)

**(OR)**

- C. Explain the architecture of Arduino Board. (6)  
D. Discuss the various ways to connect sensors and actuators to the Arduino Board. (10)

15. A. Write short notes on how IoT used in Home Automation. (6)  
B. Explain various applications IoT in Healthcare Sector. (10)

**(OR)**

- C. What are the difference between IIoT and IoT. (6)  
D. Discuss various applications of IoT in Creating Smart Cities. (10)

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**APR/MAY-2025 SEMESTER EXAMINATION**

(Regulation-2021)

Semester : VI

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.
2. What is the difference between hazard and risk?
3. What is a Geological Disaster?
4. Define Technological Disasters.
5. What are the key phases of the Disaster Management Cycle?
6. List any two significance of Disaster Management.
7. Name any two Mega Disasters in India and mention any two impact.
8. What is the objective of the Disaster Management Act, 2005?
9. What is the role of GIS in Disaster Management.
10. Define early warning system.

**PART-B**

((6+10)×5=80 Marks)

**Answer all the questions in detail**

11. A. Differentiate between hazard, vulnerability and risk with suitable examples. (6)  
B. Discuss the relationship between Disaster and Development with relevant examples. (10)
- (OR)
- C. Explain the role of capacity in Disaster Management. (6)  
D. Explain the stages of Disaster Management. (10)
12. A. Differentiate between Geological Disasters and Hydro-meteorological Disasters. (6)  
B. Discuss biological Disaster and its causes, impacts and possible mitigation measures (10)

(OR)

- C. How do Man-Made Disasters differ from Technological Disasters? (6)
- D. Explain how climate change contributes to emerging risks and urban Disasters. (10)
13. A. Explain the importance of early warning systems in Disaster Management. (6)
- B. Discuss the paradigm shift in Disaster Management and its impact on Disaster Preparedness and response. (10)
- (OR)**
- C. What is the role of the Incident Command System (ICS) during a Disaster response? (6)
- D. Compare the Yokohama Strategy, Hyogo Framework of Action and IDNDR in the context of International Disaster risk reduction efforts. (10)
14. A. Explain the institutional and financial mechanisms under the Disaster Management Act, 2005. (6)
- B. Discuss the National Policy on Disaster Management (NPDM) and its key objectives. (10)
- (OR)**
- C. What is the role of Non-Governmental and Inter-Governmental agencies in Disaster Management in India? (6)
- D. What is the role of Government in Disaster Management. (10)
15. A. Explain the difference between structural and non-structural mitigation of Disasters. (6)
- B. Discuss the role of Geo-Informatics (RS, GIS and GPS) in Disaster Management. (10)
- (OR)**
- C. How does land use planning help in Disaster risk reduction? (6)
- D. Describe the role of Science & Technology (S&T) institutions in Disaster Management (10)

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**APR/MAY-2025 SEMESTER EXAMINATION**

(Regulation-2021)

Semester : VI 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 and marketing research.
2. What are the key components of the marketing mix?
3. What is the term 'consumer behavior.'
4. Name two important models of consumer behaviour.
5. Define 'Pricing' in the context of marketing.
6. Define 'product' in the context of marketing
7. What is GATT, and why is it important?
8. State two main objectives of the World Trade Organization (WTO).
9. What is export documentation?
10. Mention two types of pre-shipment documents required for exports.

**PART-B**

((6+10)×5=80 Marks)

**Answer all the questions in detail**

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

marketing strategies.

**(OR)**

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

- 13. A. Explain the role of pricing in the marketing mix. (6)
- B. Describe the various methods of market research and their importance in marketing decision-making. (10)

**(OR)**

- C. Differentiate between wholesaling and retailing in marketing channels. (6)
- D. Explain the role of advertising and personal selling in the promotion mix with examples. (10)

- 14. A. Differentiate between import, export, and re-export. (6)
- B. Analyze 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. Discuss the concept of GATT and its role in promoting international trade. (10)

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

**(OR)**

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

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**APR/MAY-2025 SEMESTER EXAMINATION**

(Regulation-2021)

Semester : **VI** Time:3 Hours  
Course Code & Title : **HTPE307 Technological Developments in Handlooms** Maximum Marks:100

**PART-A**

(10×2=20 Marks)

**Answer all the questions within two to three sentences**

1. What are the various packages of yarn?
2. What is the limitation of Hand operated pirn winding charka used in preparatory process?
3. What are the objectives of warp winding?
4. List the name of 4 parts to be used in shedding in improved frame loom.
5. Differentiate between 5 wheel take up motion and worm & worm wheel take up motions.
6. Classify the Drop box motion used in Handloom.
7. Mention the techniques to be used for solid boarder weaving.
8. What are the advantages of using multiple butta weaving sley?
9. Write down the name of 4 types of semi automatic loom.
10. Write down the merits of pneumatic lifting mechanism for jacquard.

**PART-B**

(6+10)×5=80 Marks)

**Answer all the questions in detail**

11. A. Explain the objectives of technological development in handlooms. (6)  
B. With suitable sketch layout accommodating of 20 Frame loom accomplished (10) with all the preparatory and post loom sections.  
(OR)  
C. Discuss the merits and demerits of placing looms in systematic/organized way (6) with suitable diagram.  
D. With a neat sketch showing the path of yarn explain the working of single (10) spindle motor operated winding machine.

12. A. List out the importance of angle iron pillars and cross bars used in place of wooden pillars and cross bars in pit loom. (6)
- B. With a neat sketch explain the additional mechanism added to convert ordinary handloom to improved Frame loom. (10)

(OR)

- C. Explain the path of warp sheet with suitable diagram in frame loom. (6)
- D. Explain in detail about power operated in house beaming machine to be used for long length of warp and also mention its advantages. (10)
13. A. With a neat sketch explain the use of five wheel take-up motion in semi automatic loom. (6)
- B. Explain the vertical handloom dobby with neat sketch. Write its merits and demerits. (10)

(OR)

- C. Explain the plunger mechanism used in durry weaving along with its advantages. (6)
- D. With neat sketch explain the mechanism and working principle of drop box attachment on handlooms. (10)
14. A. Discuss the technique of solid boarder weaving with catch cord. (6)
- B. Explain the mechanism and working principle of solid boarder weaving sley and mention its advantages. (10)

(OR)

- C. What are the advantages of using multiple butta weaving sley in handloom sarees? (6)
- D. What is improved pit loom? Compare its advantages and disadvantages over normal pit loom. (10)
15. A. Write short notes on Banarasi semi automatic loom. (6)
- B. With neat sketch explain the working principle of electric motor operated jacquard lifting mechanism. (10)

(OR)

- C. Compare the merits and demerits of Nepali pedal loom and chittaranjan loom. (6)
- D. With neat sketch explain the electromagnetic lifting mechanism for heald shaft. Write its merits and demerits. (10)

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**APR/MAY-2025 SEMESTER EXAMINATION**

(Regulation-2021)

Semester : VI

Time:3 Hours

Course Code &Title : **HTPE308 Traditional Handloom  
Textiles of India**

Maximum Marks:100

**PART-A**

(10×2=20 Marks)

**Answer all the questions within two to three sentences**

1. Write the raw materials required to prepare Banaras Brocade Silk Saree.
2. Name the states where Ikat Saree is produced.
3. Write two unique characteristics of Kota Doria Saree.
4. Name the technique used to produce Kancheepuram Silk Saree.
5. List any two important properties of Uppada Jamdani Silk Saree.
6. Write the objective of silk mark.
7. State the name of the Ministry under which DCH Office is working.
8. Write the name of two states, where Handloom craft villages is established.
9. Write the full form of IHB?
10. Mention the name of two 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 a brief note on Baluchari Silk Saree. (6)  
B. Elaborate the production technique and unique characteristic for making Chanderi Saree. (10)
- (OR)
- C. How Banaras Brocade Silk Saree can be differentiated from Baluchari Silk Saree? (6)  
D. Write the product specifications, production techniques and unique characteristics for Bomkai Saree. (10)
12. A. What are the unique characteristics of Kota Doria Saree? (6)  
B. Explain the product specifications, production techniques raw materials and unique characteristics of Kani Pashmina Shawl. (10)

**(OR)**

- C. Write about Paithani Saree and its special features. (6)
- D. Explain the product specifications, production techniques, raw materials and unique characteristics of Kancheepuram Silk Saree. (10)
13. A. Write the comparison between Tangail Cotton Saree and Tanchoi Silk Saree. (6)
- B. Explain the production techniques and uniqueness of Venkatgiri Cotton Saree. (10)

**(OR)**

- C. State the difference between Shantipur Cotton Saree and Balarampuram Cotton Saree. (6)
- D. Explain the product specifications and production technique of Shantipuri Cotton Saree. (10)
14. A. Write the objectives of India Handloom Brand. (6)
- B. Explain in detail about the standard operation procedure to be followed from registration of new firm under India Handloom Brand. (10)

**(OR)**

- C. Write short notes on silk mark. (6)
- D. Discuss the role of office of DCH, WSC and Textile committee on India Handloom Brand. (10)
15. A. Write about terms and definitions of Handloom (Reservation of articles for production) Act, 1985. (6)
- B. What is the role of advisory committee for Handloom Reservation Act, 1985? (10)

**(OR)**

- C. List any of the 6 articles prohibited for production rather than Handloom. (6)
- D. Discuss in brief about the penalty for contravention under the Handloom Reservation Act, 1985. (10)

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**APR/MAY-2025 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. Mention the objectives of home textiles.
2. Define upholstery and give any two examples.
3. Differentiate between the oven mitten and gloves with neat sketch.
4. What are the fabric properties requirements for draperies?
5. Distinguish between the quilt and comforter.
6. Define bolster pillow and mention its uses.
7. Define “Carpet and Rugs”.
8. Justify the nylon and wool fibres are most suitable for carpet manufacturing process.
9. Suggest the different methods of cleaning used for home textiles.
10. Which kind of testing is carried out for curtain fabrics?

**PART-B**

(6+10)×5=80 Marks)

**Answer all the questions in detail**

11. A. Classify the home textiles based on the rooms with suitable examples. (6)  
B. Elaborate the different types of table linens with neat sketches. (10)  
(OR)  
C. Suggest the different colours used in home textiles with respect of psychological effect. (6)  
D. Explain the various types of fibres used in home textile products with respect of their properties. (10)
12. A. Describe about the various accessories used for draperies constructions. (6)

- B. Explain in detail about the different types pleats used in curtain constructions. (10)
- (OR)**
- C. Mention the types of kitchen linens with neat sketches. (6)
- D. Explain the different types of fabrics used in window treatments in detail. (10)
13. A. Define thread count and explain the various bedlinen structures based on the thread count. (6)
- B. How to evaluate the water absorbance characteristic in terry fabric? Also mention its uses. (10)
- (OR)**
- C. Explain about the mattress constructions in bedlinen. (6)
- D. Define care lable and explain the various symbols used in care labeling with neat sketch. (10)
14. A. Classify the floor covering materials with examples. (6)
- B. Discuss the tufting carpet manufacturing process in detail. (10)
- (OR)**
- C. Distinguish between the Wilton and Axminster rugs. (6)
- D. Explain the various construction methods of carpet manufacturing. (10)
15. A. Elaborate about the identification of stains in the home textiles. (6)
- B. Describe about the stain removal procedure for home textiles. (10)
- (OR)**
- C. Explain about the following home textile products caring. (6)
1. Carpets and rugs 2. Curtains and draperies
- D. Elaborate the various types of test to be conducted in the home textile materials in detail. (10)

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