GUJARAT TECHNOLOGICAL UNIVERSITY  M.E.—I <sup>st</sup> SEMESTER—EXAMINATION — JULY- 2012  Subject code: 712505N Date: 11/07/20  Subject Name: Texturing Technology  Time: 2:30 pm — 05:00 pm Total Marks:  Instructions:  1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.  Q.1 Write note on (i) Baffles (ii) Ringtex friction texturing process (iii) High temperature textured polyester dyeing  Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn.  (b) What are the main functions of spin finish on textured yarn? Discuss. OR  (b) With neat sketch explain working of simultaneous and sequential draw texturing process.  Q.3 (a) Define and discuss 07	
Subject code: 712505N  Subject Name: Texturing Technology Time: 2:30 pm – 05:00 pm  Total Marks:  Instructions:  1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.  Q.1 Write note on (i) Baffles (ii) Ringtex friction texturing process (iii)High temperature textured polyester dyeing  Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn. (b) What are the main functions of spin finish on textured yarn? Discuss.  OR (b) With neat sketch explain working of simultaneous and sequential draw texturing process.	
Subject Name: Texturing Technology Time: 2:30 pm – 05:00 pm  Total Marks: Instructions:  1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.  Q.1 Write note on (i) Baffles (ii) Ringtex friction texturing process (iii)High temperature textured polyester dyeing  Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn. (b) What are the main functions of spin finish on textured yarn? Discuss. OR (b) With neat sketch explain working of simultaneous and sequential draw texturing process.	
Time: 2:30 pm – 05:00 pm  Instructions:  1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.  Q.1 Write note on (i) Baffles (ii) Ringtex friction texturing process (iii)High temperature textured polyester dyeing  Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn. (b) What are the main functions of spin finish on textured yarn? Discuss.  OR (b) With neat sketch explain working of simultaneous and sequential draw texturing process.	12
Instructions:  1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.  Q.1 Write note on (i) Baffles (ii) Ringtex friction texturing process (iii) High temperature textured polyester dyeing  Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn. (b) What are the main functions of spin finish on textured yarn? Discuss.  OR (b) With neat sketch explain working of simultaneous and sequential draw texturing process.	
<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> <li>Write note on         <ul> <li>(i) Baffles</li> <li>(ii) Ringtex friction texturing process</li> <li>(iii) High temperature textured polyester dyeing</li> </ul> </li> <li>Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn.</li> <li>(b) What are the main functions of spin finish on textured yarn? Discuss.</li> <li>OR</li> <li>(b) With neat sketch explain working of simultaneous and sequential draw texturing process.</li> </ol>	<b>70</b>
<ul> <li>2. Make suitable assumptions wherever necessary.</li> <li>3. Figures to the right indicate full marks.</li> <li>Q.1 Write note on  (i) Baffles  (ii) Ringtex friction texturing process  (iii) High temperature textured polyester dyeing</li> <li>Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn.</li> <li>(b) What are the main functions of spin finish on textured yarn? Discuss.  OR  (b) With neat sketch explain working of simultaneous and sequential draw texturing process.</li> </ul>	
3. Figures to the right indicate full marks.  Q.1 Write note on (i) Baffles (ii) Ringtex friction texturing process (iii)High temperature textured polyester dyeing  Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn.  (b) What are the main functions of spin finish on textured yarn? Discuss.  OR (b) With neat sketch explain working of simultaneous and sequential draw texturing process.	
Q.1 Write note on  (i) Baffles (ii) Ringtex friction texturing process (iii)High temperature textured polyester dyeing  Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn.  (b) What are the main functions of spin finish on textured yarn? Discuss.  OR  (b) With neat sketch explain working of simultaneous and sequential draw texturing process.	
<ul> <li>(i) Baffles</li> <li>(ii) Ringtex friction texturing process</li> <li>(iii) High temperature textured polyester dyeing</li> <li>Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn.</li> <li>(b) What are the main functions of spin finish on textured yarn? Discuss. OR</li> <li>(b) With neat sketch explain working of simultaneous and sequential draw texturing process.</li> </ul>	
<ul> <li>(i) Baffles</li> <li>(ii) Ringtex friction texturing process</li> <li>(iii) High temperature textured polyester dyeing</li> <li>Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn.</li> <li>(b) What are the main functions of spin finish on textured yarn? Discuss. OR</li> <li>(b) With neat sketch explain working of simultaneous and sequential draw texturing process.</li> </ul>	
<ul> <li>(iii)High temperature textured polyester dyeing</li> <li>Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn.</li> <li>(b) What are the main functions of spin finish on textured yarn? Discuss. OR</li> <li>(b) With neat sketch explain working of simultaneous and sequential draw texturing process.</li> </ul>	
<ul> <li>Q.2 (a) Explain the air jet texturing principle involved the tangling effect by high turbulent air flow acting on feed filament yarn.</li> <li>(b) What are the main functions of spin finish on textured yarn? Discuss. OR</li> <li>(b) With neat sketch explain working of simultaneous and sequential draw texturing process.</li> </ul>	
high turbulent air flow acting on feed filament yarn.  (b) What are the main functions of spin finish on textured yarn? Discuss.  OR  (b) With neat sketch explain working of simultaneous and sequential draw texturing process.	
high turbulent air flow acting on feed filament yarn.  (b) What are the main functions of spin finish on textured yarn? Discuss.  OR  (b) With neat sketch explain working of simultaneous and sequential draw texturing process.	
<ul> <li>(b) What are the main functions of spin finish on textured yarn? Discuss. 07         OR     </li> <li>(b) With neat sketch explain working of simultaneous and sequential 07 draw texturing process.</li> </ul>	
OR  (b) With neat sketch explain working of simultaneous and sequential 07 draw texturing process.	
draw texturing process.	
Q.3 (a) Define and discuss 07	
<b>Q.3</b> (a) Define and discuss	
(i) Coercive torque	
(ii) Residual twist	
(iii)Air jet textured yarn characteristics	
(b) Write a note on dynafil M tester. 07	
OR	
<ul> <li>Q.3 (a) Elaborately explain the thermodynamics of texturing process.</li> <li>(b) Why physical bulk is an important property in air jet textured yarn?</li> <li>07</li> </ul>	
(b) Why physical bulk is an important property in air jet textured yarn? <b>07</b> Discuss various methods to measure it.	
Discuss various methods to measure it.	
Q.4 (a) What is the effect of molecular structure variables on Tg? 07	
(b) Define terminology: 07	
(i) Crimpiness stability	
(ii) Extensibility (iii)Linear density of textured yarn Tt	
OR	
Q.4 (a) Which parameters should considered to get uniform dyeing on 07	
textured polyester yarn?	
Q.4 (b) With neat sketch explain working of any 4 air jet texturing nozzles. 07	
Q.5 (a) Write shortly on textured stabilization and thermal transition. 07	
(b) List out and discuss any three feed material characteristics which 07	
affect the textured yarn properties.	
OR	
Q.5 (a) What are bicomponent and biconstitute fibre system? Explain the 07	
principle of both systems.  (b) What is the main function of heat setting chamber? Also discuss 07	
different types of it.	

\*\*\*\*\*