Code No: R05312101

R05

Set No. 2

III B.Tech I Semester Examinations, November 2010 AIRCRAFT PRODUCTION TECHNOLOGY

Aeronautical Engineering

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) What is the necessity for surface cleaning of the Aircraft components?
 - (b) Name and explain the general procedures adopted for surface cleaning. [4+12]
- 2. (a) How metal is inspected by X-rays?
 - (b) Discuss acoustic holography.

[8+8]

- 3. It has been stated that the drawability of a material is higher in the hydroform process than in the deep-drawing process. Explain why? [16]
- 4. Discuss aircraft project tooling concepts. What special attention should be given for using this tooling for an aircraft? [16]
- 5. (a) How are hollow parts with various cavities made by die casting?
 - (b) Explain why the strength-to-weight ratio of die-cast parts increases with decreasing wall thickness. [8+8]
- 6. (a) What are Non-Traditional Machining methods (NTMM)?
 - (b) Write the Energy associated for metal removal.
 - (c) Write the mechanism of metal removal in each NTMM. [16]
- 7. Explain various brazing methods.

[16]

- 8. (a) What is grinding operation? What are the uses of grinding process on manufactured products?
 - (b) List the various operations performed on grinding machines. [8+8]

Code No: R05312101

R05

Set No. 4

III B.Tech I Semester Examinations, November 2010 AIRCRAFT PRODUCTION TECHNOLOGY

Aeronautical Engineering

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

1	. Explain	various	brazing	methods.	$\lfloor 1$	L 6	١

- 2. It has been stated that the drawability of a material is higher in the hydroform process than in the deep-drawing process. Explain why? [16]
- 3. Discuss aircraft project tooling concepts. What special attention should be given for using this tooling for an aircraft? [16]
- 4. (a) What is grinding operation? What are the uses of grinding process on manufactured products?
 - (b) List the various operations performed on grinding machines. [8+8]
- 5. (a) How metal is inspected by X-rays?
 - (b) Discuss acoustic holography.

[8+8]

- 6. (a) What is the necessity for surface cleaning of the Aircraft components?
 - (b) Name and explain the general procedures adopted for surface cleaning.[4+12]
- 7. (a) What are Non-Traditional Machining methods (NTMM)?
 - (b) Write the Energy associated for metal removal.
 - (c) Write the mechanism of metal removal in each NTMM. [16]
- 8. (a) How are hollow parts with various cavities made by die casting?
 - (b) Explain why the strength-to-weight ratio of die-cast parts increases with decreasing wall thickness. [8+8]

R05

Set No. 1

III B.Tech I Semester Examinations, November 2010 AIRCRAFT PRODUCTION TECHNOLOGY

Aeronautical Engineering

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. It has been stated that the drawability of a material is higher in the hydroform process than in the deep-drawing process. Explain why? [16]
- 2. (a) How metal is inspected by X-rays?
 - (b) Discuss acoustic holography.

[8+8]

3. Explain various brazing methods.

Code No: R05312101

[16]

- 4. (a) How are hollow parts with various cavities made by die casting?
 - (b) Explain why the strength-to-weight ratio of die-cast parts increases with decreasing wall thickness. [8+8]
- 5. (a) What is grinding operation? What are the uses of grinding process on manufactured products?
 - (b) List the various operations performed on grinding machines. [8+8]
- 6. (a) What is the necessity for surface cleaning of the Aircraft components?
 - (b) Name and explain the general procedures adopted for surface cleaning. [4+12]
- 7. Discuss aircraft project tooling concepts. What special attention should be given for using this tooling for an aircraft? [16]
- 8. (a) What are Non-Traditional Machining methods (NTMM)?
 - (b) Write the Energy associated for metal removal.
 - (c) Write the mechanism of metal removal in each NTMM. [16]

Code No: R05312101

R05

Set No. 3

III B.Tech I Semester Examinations, November 2010 AIRCRAFT PRODUCTION TECHNOLOGY

Aeronautical Engineering

Time: 3 hours Max Marks: 80

Answer any FIVE Questions All Questions carry equal marks

- 1. (a) What are Non-Traditional Machining methods (NTMM)?
 - (b) Write the Energy associated for metal removal.
 - (c) Write the mechanism of metal removal in each NTMM.

[16]

- 2. It has been stated that the drawability of a material is higher in the hydroform process than in the deep-drawing process. Explain why? [16]
- 3. (a) How metal is inspected by X-rays?
 - (b) Discuss acoustic holography.

[8+8]

- 4. (a) What is the necessity for surface cleaning of the Aircraft components?
 - (b) Name and explain the general procedures adopted for surface cleaning.[4+12]
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