

B.Sc. DEGREE EXAMINATION, NOVEMBER 2008**Aeronautical Science****Tools and Precision instruments****(Upto 2007 -Batch)**

Duration : 3 Hours

Maximum : 75 marks

Part - A**(5 x 3 = 15)****Answer any Five Questions**

1. What are the rules for safe use of files ?
2. How hammers are classified? What are the different types of hammers?
3. Write short notes on surface plates
4. Differentiate between 'Allowance' and 'Tolerance'?
5. What is the basic principle of micrometer ? Also mention the types of micrometers?
6. What is the meant by 'Safe edge' of files? Also mention the purpose of it?
7. Describe different types of 'fits'?
8. Explain the principle of 'GO' and 'NOT GO' guage?

Part - B**(5 x 12 =60)****Answer ALL questions**

9. a. Describe basic work shop safety and write short notes on fuel and fire extinguisher?

(OR)

- b. Explain the action to be taken in case of an electrical fire in your work place? Also mention some of the safety measures to be observed to avoid electrical fire ?

10. a. Explain how files are classified ? Also explain different grades and types of files?

(OR)

b. What is meant by pinning of files ? What are the causes of pinning?

11. a. Write the purposes of :-

i) Out side calipers

ii) Hemaphordite calipers

iii) Trammel

iv) Scribes.

(OR)

b. With the help of a neat diagram, explain briefly about combination set?

12. a. Differentiate between a screw and a bolt ? Also explain the classification of screws.

(OR)

b. Explain why safetying of fasteners are important ? What are the types of safetying and explain any one of them ?

13. a. With a neat diagram, explain the major parts of a micrometer ?

(OR)

b. Explain how measurements are read on English Vernier Caliper ? Illustrate with one example ?

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