

Question Bank (G scheme)

Name of subject: IFP

Unit Test: II

Subject Code: 17608

Course: ME6G

Semester: VI

Chapter 4- Introduction to & components of pneumatic systems – 24M

Q1. State the merits and limitations of pneumatic system? 3M

Q2. Write any four applications of pneumatic systems? 3M

Q3. Draw and explain general layout of pneumatic system? 3M

Q4. Draw a neat sketch of two stage air compressor and label its parts? 4M

Q5. Draw a sketch of normal and actuating position of 4/2 Directional Control pneumatic valve? 4M

Q6. What are the different types of pressure regulator? Explain any one with neat sketch? 4M

Q7. Draw the pneumatic symbol of: (i) Muffler (ii) 4X2 DC valve? 3M

Q8. Classify pipe fittings in pneumatic system and explain any one? 4M

Q9. Explain FRL fit? 4M

Q10. What is the difference between spool type and seal type DC type? 4M

Q11. Write any four tips for good piping in workshop using pneumatic system? 4M

Q12. Explain with neat sketch the working of push button operated 5X2 DC valve used in pneumatics?
4M

Q13. Give classification of pneumatic control valve? 8M

Q14. Give classification of air compressors on the basis of: 3M

- (i) Stages
- (ii) Drives of compressor
- (iii) Cooling medium
- (iv) Action

Q15. Draw the figure of air filter used in pneumatic system. Explain how filter removes moisture from air? 4M

Q16. State different types air motors. Explain any one? 8M

Chapter 5 – Pneumatic circuits – 16M

Q1. Explain with neat sketch working of sequencing circuit for two double acting air cylinders? 4M

Q2. Explain with neat sketch working of impulse operation pneumatic circuit? 4M

Q3. Explain pneumatic circuit for controlling speed of double acting cylinder with circuit diagram? 8M

Q4. Sketch and explain speed control of bi-directional air motor in pneumatic system? 4M

Q5. Draw & explain time delay circuit? 8M