Question Bank (I scheme)

Name of Course: Fluid Flow Operation(FFO) Subject code: 22409

Semester :IVProgramme: Chemical

Unit test II

Unit 3: Incompressible fluid flow measurement(3marks)

FOUR marks question

1. Give the calibration of rotameter;
2. Explain the construction and working of a pitot tube

Unit4: Pipe fittings and valves(8marks)

TWO marks question

3. Draw the diagram of any 3 fittings.
4. Give reason why globe valve causes more pressure drop than gate valve?
5. Differentiate gate valve and globe valve based on a) application b) pressure drop

FOUR marks question

6. Draw the diagram of gate valve and mark the parts
7. Draw neat diagram of globe valve
8. Explain the construction and working of rupture disc

Unit 5: Liquid pumping devices(14marks)

TWO marks question

9. Give the classification of pumps
10. Explain priming of centrifugal pump
11. Define NPSH
12. Explain Cavitation in a pump
13. Explain air binding .

FOUR marks question

14. Differentiate between single acting and double acting reciprocating pump
15. . Draw the diagram of a gear pump and mark the parts
16. Differentiate between centrifugal pump and positive displacement pump based on following points a) mode of delivery b)priming c)efficiency d) liquids with solids suspended
17. Draw the diagram of centrifugal pump and mark the parts
18. Explain characteristics curve of a centrifugal pump

Unit 6: Gas pumping devices(10marks)

TWO marks question

19. Define minimum fluidization velocity
20. Give the application of fluidization
21. State the advantages of liquid ring vacuum pumps

FOUR marks question

22. Explain the working of a jet ejector
23. Compare induced draft and forced draft fan
24. Draw the diagram of reciprocating compressor and mark the parts
25. Explain the working of water ring vacuum pumps