

Question Bank (G scheme)

Name of subject: MEASUREMENT & CONTROL

Subject code: 17528

Semester: V

Unit Test :II

Course : ME

5. Miscellaneous Measurement

- 1) Enlist indirect liquid level measurement devices, Explain with sketch working
4liquid level gauge 4
- 2) Explain with sketch eddy-current or drag-cup tachometer 4
- 3) State the types of contactless electrical tachometers & explain any one with
sketch 4
- 4) Define load cells. State applications of strain gauge load cells 4
- 5) What do you understand by strain rosette? How is it used? 4
- 6) While measuring speed of steam turbine with stroboscope single line images
were observed for stroboscope setting of 3000,4000,5230rpm. Calculate speed of
turbine 4
- 7) Explain any one float gauge used for liquid level measurement 4
- 8) Explain with sketch the working of tool dynamometer 4
- 9) Explain the working of stroboscope with sketch 4
- 10) State any 4 requirement to be considered while designing strain gauge 3
- 11) Explain wire type bonded strain with sketch 3
- 12) State the units of humidity. Explain working of hair hygrometer 4
- 13) Explain working of capacitance type level meter 4
- 14) Compare orthogonal cutting & oblique cutting 3
- 15) List various displacer level detectors. Explain liquid level measurement by
torque tube type displacer with sketch 4

- 16) Explain sketch strain gauge transmission dynamometer 4
- 17) Explain the following
- a) Cross sensitivity , b) creep , c)fatigue ,d)post yield gauge 3
- 18) List any 4 metal alloys used for strain gauge sensing element 3

6.control system

- 19) Define control system & state 2 examples 3
- 20) Draw block diagram of automatic control system & explain 4
- 21) explain open loop control system with block diagram & example 4
- 22) state types of closed-loop system 3
- 23) Compare open & closed loop control system 4
- 24) state advantages & disadvantages of hydraulic control 3
- 25) compare hudrulic & pneumatic system 3