

### Question Bank (G scheme)

Name of subject: ADVANCED MANUFACTURING PROCESSES  
Subject code: 17527  
Semester: V

Unit Test :II  
Course : ME

#### UNIT 3

- Q.1 Explain principle of broaching operation? 3M
- Q.2 Classify broaching machines and explain any one? 3M
- Q.3 Draw label sketch of capstan lathe? 4M
- Q.4 Compare Engine lathe with capstan/Turret lathe? 4M
- Q.5 Differentiate between planer and shaper? 3M
- Q.6 Explain construction of planer machine with sketch? 4M
- Q.7 Explain Plano miller with sketch? 3M
- Q.8 State principle of boring machine? 3M
- Q.9 Explain jig boring machine with neat sketch? 4M

#### UNIT 4

- Q.1 What is milling? Draw its basic principle? 3M
- Q.2 How milling machines are classified? 3M
- Q.3 Classify milling cutters (in detail)? 3M
- Q.4 State various milling operations? 3M
- Q.5 Explain neat sketch side milling and plain milling? 4M
- Q.6 What is gang milling? When it is used? 4M
- Q.7 Define indexing and why indexing is needed?

- Q.8 List various methods of indexing?**
- Q.9 Explain gear shaping method for generating gears?**
- Q.10 What is gear hobbing process? State its working?**
- Q.11 List various gear finishing methods?**
- Q.12 Explain gear shaving process for gear finishing?**

## **UNIT 5**

**Q.1 Write any four advantages of grinding process? 3M**

**Q.2 Explain with neat sketch 4M**

- 1) Horizontal spindle reciprocating table grinder
- 2) Vertical spindle rotary table grinder

**Q.3 Explain principle of centered grinding with suitable sketch? 4M**

**Q.4 Explain with sketch 4M**

- 1) infeed centerless grinding
- 2) end feed centerless grinding

**Q.5 differentiate between centered and Centre less grinding on the basis of**

- 1) work piece mounting , 2)construction,
- 3) Axial thrust 4)applications 4M

**Q.6. Define**

- 1) Grain size 2)bond
- 3) Grade 4)structure related to grinding wheel 4M

**Q.7 draw any four shapes of grinding wheels & write their applications 4M**

**Q.8 How grinding size is designated in grinding wheel? 3M**

- Q.9 Explain with sketch truing of grinding wheel 3M**
- Q.10 List the types of super finishing process 3M**
- Q.11 Explain principle of honing process 3M**
- Q.12 Difference between honing & grinding process 4M**
- Q.13 Explain lapping process with sketch 4M**
- Q.14 Explain buffing wheel with sketch 4M**
- Q.15 Explain principle of polishing process & its applications 4M**

## **UNIT 6**

- Q.1 what are the different types of maintenances? Explain any one 4M**
- Q.2 Explain the need of repair cycle analysis in maintenance**
- Of machine tool 4M**
- Q.3 Explain the different function of preventive maintenance 4M**
- Q.4 what is repair complexity? state effect on deciding maintenances schedule 4M**
- Q.4How preventive maintenances is better than breakdown maintenances 4M**
- Q.5 What is the importance of machine tool maintenance & state types 4M**
- Q.6 Explain how to use maintenance manual 4M**
- Q.7 State the advantages of preventive maintenance over breakdown maintenances 4M**
- Q.8 What work is carried out in each stage of repair cycle? 4M**
- Q.9 What are the causes of failure coupling? How they are eliminated 4M**
- Q.10 what are the causes of machine breakdown? 4M**

- Q.11 Explain preventive maintenances & give its advantages 4M**
- Q.12 Difference between breakdown & corrective maintenance 4M**
- Q.13 What is productive maintenance? Its benefits 4M**
- Q.14 What is maintenances manual? What are content 4M**
- Q.15 Explain the meaning of schedule maintenances 4M**