Q.29 What is the super finishing operation? Also write its various applications in manufacturing.

Q.30 Compare soldering and brazing.

Q.31 Explain about various cutting parameters in drilling process.

Q.32 Write a short note on productivity and accuracy with CNC machine.

Q.33 Discuss about different types of forming machines.

Q.34 Write down various functions and properties of cutting fluid.

Q.35 Write a short note on lapping and honing.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

Q.36 What are the different types of milling machines? Explain the working and constructional detail of vertical mill.

Q.37 What is the principle of welding? Also enlist the various welding types used these days with their advantages and disadvantages.

Q.38 Explain the selection criteria of grinding wheels. Also discuss about safety precautions in grinding.

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SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

Q.1 _____ is used for majority of grinding wheels.

a) Shellac b) Vitrified
c) Silicate d) None of these

Q.2 In case of_____ the tool is rotating and the job is reciprocating.

a) Milling machine b) Shaper machine
c) Plane d) None of these

Q.3 AI_2O_3 stands for

a) Aluminium trioxide b) Silicon oxide
c) Aluminium oxide d) Bakelite

Q.4 It is a process of generating a gear by means of a cutter

a) Honing b) Shaping
c) Hobbing d) Shaving

Q.5 Grinding operation is used for

a) Dressing b) Finishing
c) Facing d) All of these

Q.6 Hardness of grinding wheel is denoted by

a) Mesh number b) Grade

c) Structure d) Bond

Q.7 _____ is a method of joining two or more metal parts by means of a molten metal as filler material below the temperature of 420° C.

a) Gas welding b) Resistance welding

c) Brazing d) Soldering

Q.8 The standard colour of acetylene gas cylinder is_____

a) Black b) Red

c) Maroon d) Green

Q.9 Principle of resistance welding is based on_____

a) Archimedes law

b) Coulomb's law

c) Newton's law of motion

d) Joule's law of heating

Q.10 Honing is the used for finishing the_____

a) Abrasives b) Drilled/ bored holes

c) Grinding wheel d) Gears

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Define drilling.

Q.12 Define hones.

Q.13 CNC machine.

Q.14 List two types of coolants.

Q.15 List two operations to be performed on boring machines.

Q.16 Enlist names of forming machines.

Q.17 Enlist welding defects.

Q.18 Spot welding is types of_____ welding.

Q.19 Names of natural abrasive.

Q.20 Write down applications of super finishing.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What is the difference between reaming and drilling?

Q.22 Describe the various welding defects.

Q.23 Enlist four operations to be performed on milling machine.

Q.24 What are the different types of abrasives?

Q.25 Write a short note on centreless grinding.

Q.26 What is the resistance spot welding?

Q.27 Explain the simple indexing of a job on milling machine.

Q.28 Highlight the advantages of CNC machines.