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Roll No. 180333/171733/121733/
031733

Mechanical Engineering

Subject : Workshop Technology-I

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Slag inclusion in casting is a
a) surface defect b) internal defect
c) notch d) None of them
- Q.2 The function of risers is
a) to support core
b) to store molten metal
c) to make mould cavity
d) All of above
- Q.3 Which of the following is not a casting defect
a) hot tears b) blow holes
c) scale d) porosity
- Q.4 The design of riser is based on
a) continuity equation b) bernoulli's theorem
c) gibbs rule d) chvorinov rule
- Q.5 In centrifugal casting core is made of
a) sand b) ferrous metal
c) non ferrous metal d) none of them

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Q.6 Which of the following is not a casting process

- a) shell casting b) die casting
c) carbon dioxide mould casting
d) floor moulding

Q.7 For picking the unwanted damaged portion of mould we use

- a) swab b) slick
c) riddle d) lifter

Q.8 To lift heavy and larger size patterns we use

- a) rapping plates b) gagers
c) dowel pins d) none of them

Q.9 the material widely used for making pattern is

- a) wood b) cast iron
c) brass d) plastic

Q.10 The surface to be left unmachined is marked on pattern by

- a) Red colour b) Black colour
c) Yellow colour d) Pink colour

SECTION-B

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

- Q.11 Define core blow?
Q.12 Define stamping?
Q.13 Define squeezing?
Q.14 Write the full form of MIG?
Q.15 Define rolling?

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- Q.16 Define roll forging?
- Q.17 Name any two types of rolling?
- Q.18 Define hot extrusion?
- Q.19 Name different types of thermosetting plastic?
- Q.20 Name any two types of plastics?

SECTION-C

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

- Q.21 Write a short note on compound dies?
- Q.22 Name major components of press?
- Q.23 Write a short note on misrun and cold struts?
- Q.24 Explain different types of risers?
- Q.25 Explain wedge and horn gate?
- Q.26 Explain different types of moulding flasks?
- Q.27 Write a brief note on parting sand?
- Q.28 Write are the advantage of wood pattern?
- Q.29 Explain the function of a pattern?
- Q.30 Explain the principle of Thermit welding?
- Q.31 Write the application of resistance welding?
- Q.32 What are the causes of distortion?
- Q.33 Draw a neat sketch of oxy-acetylene welding torch?
- Q.34 Discuss weld ability in details?
- Q.35 What is rightward welding?

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. 2x10=20
- Q.36 Explain the principle, working, advantage, disadvantage and application of MIG welding.
 - Q.37 Explain with neat sketch, construction and working of cupola furnace?
 - Q.38 Explain the process of pipe and tube drawing with diagram?

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