

- Q.29 What are the various safety measures practiced in welding in radio active zones?
- Q.30 Write advantages of welding.
- Q.31 Write the effect of welding parameters.
- Q.32 Explain SMAW process with diagram.
- Q.33 Write the methods to prevent electric shocks in welding.
- Q.34 Enlist various safety protection devices for Cutting operations.
- Q.35 Write short note on weldability of carbon steel.

SECTION-D

Note: Long Answer type question. Attempt any two questions. $(2 \times 10 = 20)$

- Q.36 Explain the weldability of Stainless steel and aluminum in details.
- Q.37 Explain the X-ray inspection method in details.
- Q.38 Explain the block sequence and cascade sequence method.

b)

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Roll No.....

4th Sem., Branch : Mechanical Engg. (Fabrication Tech)
Subject : Fabrication Process-I

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.1 What is used as a terminal in an electrical circuit for the purpose of producing an electric arc?
- a) Flux
 - b) Electrode
 - c) Weld
 - d) Inert gas
- Q.2 Which of the following is formed by the heating of a metal surface?
- a) CO_2
 - b) Nitrate
 - c) Oxide
 - d) Carbon
- Q.3 Which of the following is not a type of flux?
- a) Fused Flux
 - b) Mechanically mixed Flux
 - c) Bonded Flux
 - d) Washer Flux
- Q.4 Which of the following is usually present as metal powder
- a) Aluminum
 - b) Calcium
 - c) Carbon
 - d) Molybdenum
- Q.5 The capacity of a material to be welded under certain conditions is
- a) Ability
 - b) Weldability
 - c) Weld mechanics
 - d) Welding

- Q.6 Which process cannot join dissimilar metals
 a) Welding b) Brazing
 c) Soldering d) None of the above
- Q.7 The non Destructive testing of weld is
 a) Dye penetration b) Magnetic test
 c) Ultrasonic d) All of the above
- Q.8 _____ is a ratio between basic and acid compounds(oxides and fluorides) of which the flux is composed.
 a) Flux index b) Basicity index
 c) Acidity index d) None of the above
- Q.9 Arc blow occurs in
 a) Gas welding
 b) Arc Welding when straight polarity is used
 c) Gas cutting
 d) None
- Q.10 The inspection weldment is carried out by _____ process
 a) Magnetic test b) Hydraulic test
 c) Metal test d) All of the above

SECTION-B

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

- Q.11 _____ is the material used in electrode coating.
- Q.12 Write two characteristics of inert gases in welding.
- Q.13 Define weldability.

- Q.14 Name two method to control distortion in weldment.
- Q.15 What is meant by ASME 831.3?
- Q.16 Expand MIG.
- Q.17 Write two functions of electrode coating.
- Q.18 Expand SMAW.
- Q.19 _____ is the function of electrode coating.
- Q.20 Two methods of welding inspection are _____ and _____.

SECTION-C

- Note :** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain the role of various flux ingredients.
- Q.22 What are the causes of development of distortion and residual stresses in welding?
- Q.23 Explain different type of welding inspection methods.
- Q.24 What is the procedure of dye penetrant method?
- Q.25 Explain any 5 welding codes.
- Q.26 What are the effects of fumes of human health? Explain the protection method.
- Q.27 Explain the effect of chromium and nickel in welding fumes.
- Q.28 What are the uses of welding codes? Why they are followed?