

**Advance Skill Diploma**  
**Press Tool & Die Maintenance & Stamping**  
**Subject: Workshop Technology**  
**Subject Code: NDME-103**  
**Semester: 1<sup>st</sup> (Regular)**  
**Batch: 2019-20**  
**Theory (External): 35 Marks**  
**Time: 03 hours**

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**Instructions to the Students**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

**Roll Number**

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## SECTION -A (OBJECTIVE TYPE QUESTIONS)

(10x1=10 Marks)

- Q1 Which of the following welding process uses bare metal electrodes?
- a) Tungsten inert gas arc welding
  - b) Metal inert gas arc welding
  - c) Spot welding
  - d) Percussion welding
- Q2 Which of the following types of fuel gas is commonly used in gas welding?
- a) Biogas
  - b) Methane
  - c) Acetylene
  - d) Coal gas
- Q3 Which of the follow is not the example of resistance welding
- a) Seam welding
  - b) Spot welding
  - c) Pressure welding
  - d) Percussion welding
- Q4 The temperature around  $3200^{\circ}\text{C}$  is obtained for
- a) Inner cone of neutral flame
  - b) Outer envelope of neutral flame
  - c) Intermediate zone of oxidized flame
  - d) None of these
- Q5 A jig perform a specific work while fixture does not perform....
- a) Holds the workpiece
  - b) Locate the workpiece
  - c) Guide the tool
  - d) Other than all this



- Q6 Operation done to make periphery of grinding wheel concentric with its axis to recover its lost shape is known as
- a) Loading
  - b) Glazing
  - c) Dressing
  - d) Trueing
- Q7 In arc welding, the electric arc is produced between the work and the electrode by
- a) Voltage
  - b) Flow of current
  - c) Contact resistance
  - d) All of the above
- Q8 Thermal conductivity of cutting tool must be
- a) High
  - b) Low
  - c) Very low
  - d) None of the mentioned
- Q9 Which of the following operation, we can't perform on drilling machine?
- a) Reaming
  - b) Tapping
  - c) Lapping
  - d) None of mentioned
- Q10 What is the solidus temperature of tin-lead solders?
- a) 183°C
  - b) 297°C
  - c) 444°C
  - d) 604°C

## SECTION -B (ESSAY TYPE QUESTIONS)

(5x5=25 Marks)

- Q1 Explain the following parts of lathe machine:
- a) Tool post
  - b) Tail stock
  - c) Lead Screw
  - d) Chuck
- Q2 Write about the indexing in milling machine.
- Q3 State the common drilling operations and explain briefly.
- Q4 Write down the basic differences in between soldering and brazing.
- Q5 Write down the difference between spot and seam welding with neat sketch.
- Q6 Explain briefly different flame obtained in oxy-acetylene gas welding.
- Q7 Explain the working principle of percussion welding along with application.
- Q8 Write short notes on:
- a) Honing operation
  - b) Tapping operation

\*\*\*\*\*END OF PAPER\*\*\*\*\*