

B.Voc. Tool and Die Manufacturing
Subject: Manufacturing Technology

Subject Code: CBME104

Semester: 2nd (Regular)

Batch: 2018-21

Theory (External): 35 Marks

Time: 03 hours

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 Core prints are prepared in mould to support
- a) Pattern
 - b) Chaplets
 - c) Cores
 - d) Chills
- Q2 Double shrinkage allowance is used for
- a) Single piece pattern
 - b) Gated pattern
 - c) Split pattern
 - d) Master pattern
- Q3 Seamless tubes are made by
- a) Piercing
 - b) Hot rolling
 - c) Forward extrusion
 - d) Drawing
- Q4 Metallic powders can be produced by
- a) Atomization
 - b) Electro deposition process
 - c) Pulverization
 - d) All of above
- Q5 Build up edge is generally seem in cutting of
- a) Low carbon steel
 - b) Martensite stainless steel
 - c) Aluminium
 - d) All of these
- Q6 In which of the following operation on lathe, the spindle speed will be minimum
- a) Turning
 - b) Spinning
 - c) Thread cutting
 - d) Knurling

- s)
- Q7 Tool life is mainly affected with
- a) Feed
 - b) Coolant
 - c) Depth of cut
 - d) Cutting speed
- Q8 EDM can be used for
- a) copper
 - b) plastic
 - c) wood
 - d) none of these
- Q9 which of the following processes results in the best accuracy of the hole made
- a) Drilling
 - b) Broaching
 - c) Reaming
 - d) Boring
- Q10 Taylor's Tool life equation is expressed as
- a) $VT^n=C$
 - b) $V/T^n=C$
 - c) $V^n T=C$
 - d) None of these

SECTION -B (ESSAY TYPE QUESTIONS)

(5x5=25 Marks)

- Q1 Give the Classification of machining processes
- Q2 With the help of neat sketch explain different types of chips.
- Q3 Write short notes on variables affecting tool life.
- Q4 Explain the working principle of EDM.

- Q5 Explain different types of pattern allowance.
- Q6 Explain different types of extrusion process with their applications.
- Q7 Explain the Steps involved in making a casting.
- Q8 Discuss Process capabilities and their applications.

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