Paper Code: BAMF04



## HARYANA VISHWAKARMA SKILL UNIVERSITY

ROLL NO.....

SEMESTER: FIRSTNAME OF THE COURSE: B.SC. (AUTOMOTIVE MANUFACTURING)NAME OF THE SUBJECT : MANUFACTURING TECHNOLOGYSUBJECT CODE: BME-101DURATION: 3 HOURSMAXIMUM MARKS: 35

Instructions to the examinee: This question paper consists of 2 sections.

- Section-I has 10 objective type questions and each question carries one marks. All questions are compulsory. (1x10=10)
- Section-II has 6 long answer type questions out of which students need to do any 5. Each question carries 5 marks. (5x5=25)

## SECTION-I (OBJECTIVE TYPE QUESTIONS)

Q1. Which flame is suitable for cutting operations?

(a) Carburizing flame

(b) Oxidizing flame

(c) Neutral flame

(d) None of the above

Q2. In arc welding, arc initiation voltage is of the order

(a) 100-140 V

(b) 60-100 V

- (c) 20-60 V
- (d) 140-180 V

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Q3. The heat generated (H) in resistance welding is expressed by

- (a) IR<sub>2</sub>t
- (b)  $I^2Rt$
- (c)  $IRt_2$
- (d) 2IRT

Q4. The ability of the moulding sand to withstand the heat of melt without showing any sign of softening is called as

(a) Adhesiveness

(b) Collapsibility

(c) Refractiveness

(d) Strength or Cohesiveness

Q5. A model of casting, constructed to use for forming a mould in sand, is called as

- (a) Cover
- (b) Pattern
- (c) Sand construction
- (d) None of the above

Q6. The pattern which are made in two or more pieces are called as

- (a) Loose piece pattern
- (b) None of the these
- (c) Solid pattern
- (d) Split pattern

Q7. The function of the taper turning on lathe machine is to

- (a) Reduce the diameter of a workplace along its length
- (b) Reduce the diameter by removing material about an axis offset from the axis of workpiece
- (c) Remove the material from end surface of a workplace

(d) All of the above

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Q8. What is the function of cone pulley drive in lathe machines?

- (a) Drive the tail-stock
- (b) Change the spindle speed
- (c) Drive the load screw
- (d) All of the above

Q9. Good surface finish and better dimensional accuracy can be achieved in

- (a) Hot working process
- (b) Cold working process
- (c) Both a. and b.
- (d) None of the above

Q10. Thermosetting materials are

(a)the plastics which can be softened even after they have set and hardened

(b) the plastics which require heat and pressure to mould them into shape

(c) Both a. and b.

(d) None of the above

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## SECTION-II (LONG ANSWER TYPE QUESTIONS)

Q1. Define metal casting and explain different types of patterns.

Q2. Explain single point cutting tool and its geometry.

Q3. Write a detail note on purpose and type of cutting fluids.

Q4. Discuss the process of TIG and MIG with diagram.

Q5. What is meant by forging of metals? Discuss different type of extrusion of metals.

Q6 Discuss the injection moulding process used in plastic industries.

## 'END OF PAPER'