



BAMR15

**HARYANA VISHWAKARMA SKILL UNIVERSITY**  
(Established under the Government of Haryana Act of Legislation No 25/2016)

Course	:	B.Voc. (Automotive Mechatronics)
Subject	:	Measurement & Metrology
Semester	:	2 <sup>nd</sup>
Subject Code	:	BBME-104
Duration	:	3 Hours
Maximum Marks	:	35

**Instructions to the Students**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises ten questions of objective type in nature. All questions are compulsory. Each question carries one mark.
3. Section B comprises six essay type questions out of which students need to do any five. Each question carries five 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)**

**(10×1= 10 Marks)**

- Q1** The principle of 'Interchangeability' is normally employed for
- Mass production
  - Production of identical parts
  - Parts within the prescribed limits of sizes
  - All of the above
- Q2** The following is not a method to find effective thread diameter
- Thread micrometer
  - Two wire method
  - Three wire method
  - The v-piece method
- Q3** The degree of closeness of the measured value of a certain quantity with its true value is known as
- Accuracy
  - Precision
  - Standard
  - Sensitivity
- Q4** Error of measurement =
- True value – Measured value
  - Precision – True value
  - Measured value – Precision
  - None of the above
- Q5** Which gauge is used to check the clearance between the two mating parts.
- Screw gauge
  - Radius gauge
  - Feeler gauge
  - Wire gauge

**Q6 The following is used to check the diameters of holes**

- a. Plug gauge
- b. Ring gauge
- c. Slip gauge
- d. Standard screw pitch gauge

**Q7 The following is not used to measure angles**

- a. Bevel protectors
- b. Calibrated levels
- c. Clinometers
- d. Optical flats

**Q8 A shaft rotating in a bushed bearing is good example of**

- a. Sliding fit
- b. Push fit
- c. Running fit
- d. Driving fit

**Q9 The following is not used to measure angles**

- a. Bevel protectors
- b. Calibrated levels
- c. Clinometers
- d. Optical flats

**Q10 The following is not a method to find effective thread diameter**

- a. Thread micrometer
- b. Two wire method
- c. The v-piece method
- d. Three wire method