



**School of Automotive Skills**  
**Session: 2021-22 (Winter Semester)**  
**B. Voc. Program, 3<sup>rd</sup> Semester,**  
**2<sup>nd</sup> In-Sem. Examination**

**Course Code: GEN1308**

**Time: 1 Hour**

**Course Name: Basics of AutoCAD & SolidWorks**

**Max. Marks: 20**

**Instruction:**

1. Answer all questions from section – A, each question carries one mark.
2. Answer all questions from section – B, each question carries two marks.
3. Answer all questions from section – C, each question carries three marks.

**Section – A**

05X01 = 05 Marks

**Q1.** A Polyline can be broken into individual lines and arcs using which of the following command?

- a) TRIM.
- b) EXPLODE.
- c) BREAK.
- d) OVERKILL.

**Q2.** Find the false statement in regards with "If an array is made associative".

- a) You can't use Boolean operations on the array elements.
- b) To make the array non associative you need to use explode command on it.
- c) The array can be edited again by selecting it.
- d) The array can't be modified in any way once it is made associative.

**Q3.** The shortcut to start a table is .....

- a) T.
- b) TA.
- c) TBL.
- d) TABLE.

**Q4.** A line 4mm in length inclined at 75 degrees to the x- axis can be represented as .....

- a) @ 4 < 75
- b) @ 0 < 15
- c) @ 4 < 15
- d) @ 0 < 75



**Q5.** The command used to convert separate entities into a polyline .....

- a) Union.
- b) Subtract.
- c) Join.
- d) Polyline.

**Section – B**

03X02 = 06 Marks

**Q6.** What do you understand by Array command in AutoCAD? Write down the types of Arrays.

**Q7.** What do you understand by using Match Properties in AutoCAD?

**Q8.** Why do we make isometric drawings in AutoCAD? What does it specify in terms of 3D?

**Section – C**

03X03 = 09 Marks

**Q9.** Explain the following:

- a) BLOCKS.
- b) GROUPS.
- c) ATTRIBUTES.

**Q10.** What do you understand by parametric constraints?

**Q11.** What do you understand by 3D operation in an AutoCAD? Explain about rotating, aligning & mirroring an object in AutoCAD 3D.



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## School of Automotive Skills

Session: 2021-22 (Winter Semester)

B. Voc. Program, 1<sup>st</sup> / 3<sup>rd</sup> / 5<sup>th</sup> Semester,

2<sup>nd</sup> In-Sem. Examination

Course Code: AUT1115

Time: 1 Hours

Course Name: Basics of Automobile

Max. Marks: 20

### Instruction:

1. Answer all questions from section A, each question carries one mark.
2. Answer all questions from section B, each question carries four mark.
3. Answer all questions from section C, each question carries six mark.

### Section – A

05X01 = 5 Marks

Q.1 The Friction disc is splined to the

- |                             |               |
|-----------------------------|---------------|
| a) Transmission input shaft | c) Flywheel   |
| b) Pressure Plate           | d) Crankshaft |

Q. 2 When the clutch pedal is depressed, the release bearing pushes the pressure-plate fingers inward. This causes the pressure plate to move away from

- |                     |                  |
|---------------------|------------------|
| a) Release bearing  | c) Friction disc |
| b) Pressure springs | d) Transmission  |

Q. 3 To help reduce the shock of engagement ,the friction disc has a series of

- |                |                    |
|----------------|--------------------|
| a) Cushion pad | c) Cushion springs |
| b) Facing      | d) discs           |

Q. 4 Technician A says in a greatest, speed reduction means torque increase. Technician B says speed increase means torque reduction. Who is right?

- |           |                    |
|-----------|--------------------|
| a) A only | c) A and B both    |
| b) B only | d) neither A nor B |

Q. 5 A synchronizer does all the following EXPECT

- |  |  |
|--|--|
| a) Prevents gear clash during shifting                                   | c) Lock a gear to the shaft            |
| b) Use friction to make the gear and synchronizer ring at the same speed | d) Attaches directly to the shift rail |



# BHARTIYA SKILL DEVELOPMENT UNIVERSITY

## Section – B

02X03 = 6 Marks

- Q. 6 List the various systems under transmission of Automobile.
- Q. 7 List out the major components of Clutch Assy.
- Q. 8 What is the difference between the differential of FWD and RWD.

## Section – C

03X03 = 9 Marks

- Q. 9 Draw a labeled diagram of Clutch Assembly and explain operation of Diaphragm clutch.
- Q. 10 What is the advantage of using synchromesh gear box over conventional one?
- Q. 11 Write the various function of Flywheel in detail.



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