



# RAAK

## COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)

VALUE ADDED COURSES

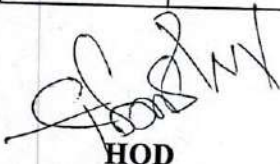
2018-2019

Department of Mechanical Engineering

18ME01-Fundamentals of Autodesk Inventor

MARK SHEET

Sl. No	Register Number	Student Name	MARKS (100)
1	15TB3101	ARAVINDAKUMAR. A	96
2	15TB3102	ASHISH. R	92
3	15TB3103	GOWTHAMAN B	88
4	15TB3104	MANIKANDAN. R	84
5	15TB3105	MOHAMED RIYAS S	96
6	15TB3106	NIKHIL GANDHI S	96
7	15TB3107	NOORDEEN ALU AHAMED M	92
8	15TB3108	RAGILAN R	96
9	15TB3109	RAJAKUMARAN R	88
10	15TB3110	RAMKUMAR K	84
11	15TB3111	SURYA V	92
12	15TB3112	VIGNESHWARAN P	96
13	15TBL086	HARISEENI VASALU N	92
14	15TBL087	JAYACHANDAR M	88
15	15TBL088	RAJAVEL U	84

  
HOD





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Dr. S. SEENUVASAMURTHI, M.E., Ph.D.

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### VALUE ADDED COURSES

2018-2019

Department of Mechanical Engineering

### 18ME01-Fundamentals of Autodesk Inventor

18ME01-Fundamentals of Autodesk Inventor	NAME
	CLASS
	DATE

1. In AutoCAD 2D Modelling, which axis is not accessible for drafting?

- A. X
- B. Y
- C. Z
- D. WCS

Answer: C) Z

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

- A. BREAK
- B. TRIM
- C. EXPLODE
- D. OVERKILL


Answer: C) EXPLODE

3. Origin of the AutoCAD drawing space is,

- A. 0,0
- B. 1,0
- C. 0,1
- D. 1,1

Answer: A) 0,0



  
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4. Scrolling of mouse can perform which following action?

- A. Zoom in / zoom out
- B. pan & scan
- C. extents / all
- D. scale

Answer: C) extents / all

5. In AutoCAD, the number of workspaces is,

- A. 1
- B. 2
- C. 3
- D. 4

Answer: B) 2

6. Is there any difference between Command Plot and Print?

- A. plot command prints only big plans
- B. The plot command for CNC (CAM)
- C. No difference
- D. print command can print up to A3 size paper

Answer: C) No difference

7. 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

Answer: D) The array can't be modified in any way once it is made associative

8. An open area can be filled with which of the following gradient:

- A. Gap
- B. Tolerance
- C. Transparency
- D. Open

Answer: B) Tolerance



  
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9. The shortcut to start a table is,

- A. T
- B. TA
- C. TBL
- D. TABLE

Answer: D) TABLE

10. What is the shortcut for zoom command?

- A. Z Command
- B. Rotate mouse wheel
- C. ZOOM Command
- D. All of the above

Answer: D) All of the above

11. To select a set of objects in the workspace, what should be done?

- A. By a crossing window drawn from right to left
- B. By a crossing window drawn left to right
- C. Shift + clicking on the objects
- D. None of the above

Answer: A) By a crossing window drawn from right to left

12. A line shows its dimension as 14.52. What is the precision of this line?

- A. [0.0]
- B. [0.00]
- C. [0.000]
- D. Display of length has nothing to do with precision

Answer: B) [0.00]

13. Model Tab and Layout Tab can be majorly distinguished as,

- A. The Model tab is used for drawing in 3D and a Layout is used for drawing in 2D
- B. The Model tab is where you create the drawing, and a Layout tab represents the sheet that you will plot or print on
- C. The colour of the background
- D. The Model tab displays the drawing you are copying from and the Layout tab is where you lay out the new drawing

Answer: B) The Model tab is where you create the drawing, and a Layout tab represents the sheet that you will plot or print on

  
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14. Shortcut key for Multileader in AutoCAD 2022,

- A. ML
- B. MLN
- C. MLEADER
- D. MULTI

Answer: C) MLEADER

15. To bring a particular area of the workspace in focus, what command should be used?

- A. Zoom Extents
- B. Zoom Window
- C. Zoom Dynamic
- D. Zoom All

Answer: B) Zoom Window

16. What are the various options from left to right and the opposite direction?

- A. Choose a different category of objects
- B. Select objects according to their colour
- C. Select objects according to their position
- D. No difference

Answer: B) Select objects according to their colour

17. Shortcut for Trim command is,

- A. T
- B. TR
- C. TI
- D. X

Answer: B) TR

18. A Boolean operation that is used to select interfering region between solids,

- A. Union
- B. Intersect
- C. Subtract
- D. None of the above

Answer: B) Intersect



  
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19. What command allows us to select objects based on some status?

- A. Properties
- B. Qselect
- C. Pselect
- D. Attributes

Answer: B) Qselect

20. If you change the scale list a project that I have started from 1:50 1:10 then,

- A. You will have to start over
- B. You should not raise the objects already exist (scale) by 5
- C. You will not need to change anything in hitherto methodology
- D. Should be converted into new items that will add based on the new scale

Answer: A) You will have to start over

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

- A. will write 0 <75
- B. will write 0 <15
- C. will write 4 <15
- D. will write 4 <75

Answer: C) will write 4 <15

22. How will you create a line representing length 15 units at an angle of 30 degrees with respect to the positive direction of the X-axis and the first point of the line is not at the origin?

- A. 30<15
- B. 15<30
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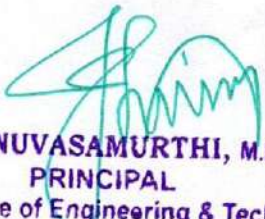
Answer: D) @15<30

23. Which of the following options cannot be used to represent a line?

- A. Yards
- B. Parsecs
- C. Microns
- D. Grads

Answer: D) Grads



  
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24. A fillet command is used to produce,

- A. Sharp corners
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- D. None of the above

Answer: C) Both of the above

25. Which one of the following is not a property of an object?

- A. Line weight
- B. Measure
- C. Hyperlink
- D. Elevation

Answer: B) Measure



  
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Department of Mechanical Engineering

18ME01-Fundamentals of Autodesk Inventor

NAME: A. Aravind Kumar

CLASS: IV - mech.

DATE: 20-8-2018

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24  
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96%

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- A. Yards
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### Certificate of completion 2018-2019

This is to certify that Mr/Ms..... A. ARAVINDA.K.V.M.A.R......

Year...II..... Department...Mechanical has successfully Completed the Value added course.

COURSE TITLE: ...AUTO. DESK... ENVE. MGR.

COURSE DURATION: .....5 days.....

SCORE: .....96%.....



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### VALUE ADDED COURSES

2018-2019

Department of Mechanical Engineering

18ME02 - Biofuels

MARK SHEET

Sl. No	Register Number	Student Name	MARKS
1	17TB3101	AKASH.P	96
2	17TB3102	DENNIS REGANNATHAN.J	92
3	17TB3103	GOVINDHAN.D	88
4	17TB3104	KARTHIKEYAN.M	84
5	17TB3105	KARUNAMOORTHY.S	92
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12	17TB3112	NIHAL AHAMED.N	84
13	17TB3114	PATTAPPAN.S	84
14	17TB3115	PRAVEENKUMAR.N	84
15	17TB3116	SIVABALAN.P	88
16	17TB3117	TAMILZHSELVAM.M	92



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17	17TBL099	MOHANRAJ.V	96
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### VALUE ADDED COURSES

2018-2019

### Department of Mechanical Engineering

### 18ME02-Biofuels

NAME:

CLASS:

DATE:

1. The term biomass most often refers to \_\_\_\_\_

- a) Inorganic matter
- b) Organic matter
- c) Chemicals
- d) Ammonium compounds

Answer: b

2. Dead organisms also come under the biomass.

- a) True
- b) False

Answer: a

3. Biomass is useful to produce \_\_\_\_\_

- a) Chemicals
- b) Fibres
- c) Biochemicals
- d) Transportation fuels


Answer: d

4. Which one of the following is an example of starch crops biomass feed stocks?

- a) Sugar cane
- b) Wheat straw
- c) Corn stover
- d) Orchard prunings

Answer: a



  
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5. Which of the following forestry materials can be used as biomass?

- a) Logging residues
- b) Tallow
- c) Fish oil
- d) Manure

Answer: a

6. Which of the following is not used as biomass?

- a) Hybrid poplar
- b) Willow algae
- c) Iron nails
- d) Trap grease

Answer: c

7. The aerobic digestion of sewage is used to produce \_\_\_\_\_

- a) Biomass
- b) Bio fuels
- c) Synthetic fuels
- d) Metal articles

Answer: b

8. Bio ethanol is denatured alcohol that is also called as \_\_\_\_\_

- a) Ethylene
- b) Methylated spirit
- c) Ethylene glycol
- d) Methylene

Answer: b

9. The production of bio ethanol is by fermenting the \_\_\_\_\_ and starch components.

- a) Acid
- b) Milk
- c) Sugar
- d) Alcohol

Answer: c



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10. The bio ethanol is subjected to rectification to remove \_\_\_\_\_

- a) Sugar
- b) Enzymes
- c) Yeast
- d) Impurities

Answer: d

11. The bio ethanol obtained in the fermentation process has \_\_\_\_\_ purity.

- a) 99%
- b) 99.2%
- c) 99.4%
- d) 99.7%

Answer: d.

12. The by-products that are produced during rectification of bio ethanol is used as \_\_\_\_\_

- a) Pig feed
- b) Cow feed
- c) Dog feed
- d) Sheep feed

Answer: c

13. To make transport fuel the bio ethanol is blended with \_\_\_\_\_

- a) Diesel
- b) Petrol
- c) Oil
- d) Kerosene

Answer: b

14. \_\_\_\_\_ is called as the bio gas.

- a) Bio ethanol
- b) Bio methane
- c) Bio diesel
- d) Bio butanol

Answer: b



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15. The percentage of carbondioxide in the bio methane is \_\_\_\_\_
- a) 30-40
  - b) 32-43
  - c) 35-45
  - d) 55-60

Answer: b

16. Bioenergy is the energy obtained from \_\_\_\_\_
- a) Coal
  - b) Natural Gas
  - c) Alcohol
  - d) Biomass

Answer: d

17. Which of the following are the types of bioenergy?
- a) Animal energy and chemical energy
  - b) Solar energy and nuclear energy
  - c) Fossil fuels and solar energy
  - d) Animal energy and biofuels

Answer: d

18. Raising crops for the production of ethanol is known as \_\_\_\_\_
- a) energy plantation
  - b) energy cropping
  - c) agro-technology
  - d) biomass production

Answer: b

19. What is the social forestry?
- a) Planting different trees in the same area
  - b) Greening of hills
  - c) Raising trees on common village lands
  - d) Planting trees on river banks

Answer: c



  
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20. Pyrolysis of wood yields only yields alcohol.  
a) True  
b) False

Answer: b

21. Which of the following options include energy crops.  
a) Sugarcane, Potato and Tomato  
b) Sugarcane, Tapioca and Cauliflower  
c) Sugarcane, Potato and Tapioca  
d) Millets, Banana and Tomato

Answer: c

22. Which wood is more suitable for fuel?  
a) Lightwood  
b) High calorific value  
c) Springwood  
d) Less combustible

Answer: b

23. Producer gas is obtained through the process of \_\_\_\_\_  
a) fermentation  
b) carbonisation  
c) combustion  
d) pyrolysis

Answer: c.

24. Hydrocarbons were first isolated from plant latex by \_\_\_\_\_  
a) Newton  
b) Calvin  
c) Krebs  
d) Meyerhof

Answer: b.

25. Fuelwood is \_\_\_\_\_  
a) waste  
b) renewable source of energy  
c) non-renewable source of energy  
d) source of biogas

Answer: b



  
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NAME: AKASH.P

CLASS: II/MECH

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- d) Orchard prunings

5. Which of the following forestry materials can be used as biomass?

- a) Logging residues
- b) Tallow
- c) Fish oil
- d) Manure

24  
25

96%



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6. Which of the following is not used as biomass?

- a) Hybrid poplar
- b) Willow algae
- c) Iron nails
- d) Trap grease

7. The aerobic digestion of sewage is used to produce \_\_\_\_\_

- a) Biomass
- b) Bio fuels
- c) Synthetic fuels
- d) Metal articles

8. Bio ethanol is denatured alcohol that is also called as \_\_\_\_\_

- a) Ethylene
- b) Methylated spirit
- c) Ethylene glycol
- d) Methylene

9. The production of bio ethanol is by fermenting the \_\_\_\_\_ and starch components.

- a) Acid
- b) Milk
- c) Sugar
- d) Alcohol

10. The bio ethanol is subjected to rectification to remove \_\_\_\_\_

- a) Sugar
- b) Enzymes
- c) Yeast
- d) Impurities

11. The bio ethanol obtained in the fermentation process has \_\_\_\_\_ purity.

- a) 99%
- b) 99.2%
- c) 99.4%
- d) 99.7%

12. The by-products that are produced during rectification of bio ethanol is used as \_\_\_\_\_

- a) Pig feed
- b) Cow feed
- c) Dog feed
- d) Sheep feed



  
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13. To make transport fuel the bio ethanol is blended with \_\_\_\_\_

- a) Diesel
- b) Petrol
- c) Oil
- d) Kerosene

14. \_\_\_\_\_ is called as the bio gas.

- a) Bio ethanol
- b) Bio methane
- c) Bio diesel
- d) Bio butanol

15. The percentage of carbondioxide in the bio methane is \_\_\_\_\_

- a) 30-40
- b) 32-43
- c) 35-45
- d) 55-60

16. Bioenergy is the energy obtained from \_\_\_\_\_

- a) Coal
- b) Natural Gas
- c) Alcohol
- d) Biomass

17. Which of the following are the types of bioenergy?

- a) Animal energy and chemical energy
- b) Solar energy and nuclear energy
- c) Fossil fuels and solar energy
- d) Animal energy and biofuels


18. Raising crops for the production of ethanol is known as \_\_\_\_\_

- a) energy plantation
- b) energy cropping
- c) agro-technology
- d) biomass production

19. What is the social forestry?

- a) Planting different trees in the same area
- b) Greening of hills
- c) Raising trees on common village lands
- d) Planting trees on river banks



  
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20. Pyrolysis of wood yields only yields alcohol.

- a) True
- b) False

21. Which of the following options include energy crops.

- a) Sugarcane, Potato and Tomato
- b) Sugarcane, Tapioca and Cauliflower
- c) Sugarcane, Potato and Tapioca
- d) Millets, Banana and Tomato

22. Which wood is more suitable for fuel?

- a) Lightwood
- b) High calorific value
- c) Springwood
- d) Less combustible

23. Producer gas is obtained through the process of \_\_\_\_\_

- a) fermentation
- b) carbonisation
- c) combustion
- d) pyrolysis

24. Hydrocarbons were first isolated from plant latex by \_\_\_\_\_

- a) Newton
- b) Calvin
- c) Krebs
- d) Meyerhof

25. Fuelwood is \_\_\_\_\_

- a) waste
- b) renewable source of energy
- c) non-renewable source of energy
- d) source of biogas



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### Certificate of Completion

2018-2019

This is to certify that Mr/Ms..... AKASH P.....

Year..... Department..... Mech..... has successfully Completed the Value added course.

COURSE TITLE: ..... Biofuels.....

SCORE: ..... 96.....

COURSE DURATION: ..... (9-8-18 to 13-8-18).....

.....  
HOD



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