

9. While introducing relations into the model, P# and D# are used what do P and D stand for?
P:
D:
10. Which one of the following is not a valid option for sketching a circle in Creo?
a) center and point b) concentric c) 3-point d) tangent and center
11. What does the shell feature do?
a) provide thickness to a solid b) hollow out inside of a solid
c) creates rib in the model d) creates shell pattern
12. CAD/CAM is the relationship between
a) science and engineering b) manufacturing and marketing
c) design and manufacturing d) design and marketing
13. What happens when two concentric circles are extruded?
a) creates a cylinder b) creates a hollow cylinder
c) creates sphere d) creates ellipse
14. Revolving a half-circle creates _____.
a) cylinder b) sphere c) ellipse d) circle
15. What does CTRL+G command do?
a) saves the model b) opens the model
c) regenerates the model d) closes the modeling window
16. Drawings in Creo are saved in which of the following format?
a) .drw b) .ptr c) .prt d) .stl
17. Which of the following file format can be read by all CAD software?
a) .drw b) .frm c) .stl d) .STEP
18. Which command is used to divide line into segments having predefined length?
a) Divide b) Chamfer c) Trim d) Measure
19. To create a BOM we need
a) detailed view b) exploded view c) section view d) default view
20. Suppressing a feature means _____.
a) deleting a feature b) hiding and deleting feature
c) hiding but not deleting a feature d) disabling a feature

KATHMANDU UNIVERSITY
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Level : B. E.
Year : IV
Time : 2 hrs. 30 mins.

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Course : MEPP 429
Semester : I
F. M. : 40

SECTION "B"

Attempt *ALL* questions. Assume any missing data with proper reasoning.

1. What is Computer Aided Design? Discuss its advantage over traditional design methods and mention its field of application. [2+2]
2. Explain design process using flow chart and precisely point out the use of CAD/CAM in the process. [2+2]
3. Explain the difference between sequential and concurrent engineering. [2]
4. Explain the relation between CAD and CAM. What advantages does CAM have in modern manufacturing? [2+2]
5. Differentiate between top-up design and bottom-up design. [2]
6. What are different methods used to create models? Briefly describe each of them. [3]
7. Write short notes on following. [4]
 - a) Geometric constraints
 - b) Relation
 - c) Bill of Materials
 - d) NURBS
8. Discuss when surface modeling is preferred over solid modeling. [2]
9. Define parametric modeling. What is family table and why is it needed? [1+2]
10. Define pattern. Briefly explain any four methods of patterning in CREO? [2]
11. A 3D design of a Flange is given below. Explain the process of modeling it using Creo. Mention all the features used to create the model. Assume all needed dimensions and draw necessary sketches (e.g if you are using extrude feature draw the sketch that will be extruded). [10]



