Instructions:

(1) Fill up strictly the details of \( \checkmark \) signs on your answer book.

(2) There are 50 questions of one mark each with four options.

(3) All questions are compulsory.

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O.M.R. Sheet बर्तन अनुसार अन्यथा सुचारू आपेक्ष
O.M.R. Sheet-ले पात्र अन्तिम ४.

Important instructions to fill up O.M.R. Sheet is given on back side of the provided O.M.R. Sheet.
1 The pencil pointer indicates that
   (A) Ready to draw a wire
   (B) Ready to place a component
   (C) Ready to edit the schematic
   (D) All the these

2 To stop placing the part
   (A) Right click
   (B) Left click
   (C) Both
   (D) None

3 What is AKO ?
   (A) All Kind Of
   (B) A Key Of
   (C) About Key of
   (D) A Kind Of

4 Full form of P-spice
   (A) Proper simulation programs with integrated circuit examples
   (B) Personal simulation programs with integrated circuit examples
   (C) Private simulation programs with integrated circuit examples
   (D) Particular simulation programs with integrated circuit examples

5 Annotation graphics toolbar provides shortcuts for
   (A) Draw arc
   (B) Draw text
   (C) Insert picture
   (D) All the these

6 X and Y coordinates of the pointer is provided by
   (A) Drawing toolbar
   (B) Schematics toolbar
   (C) Status bar
   (D) Simulation toolbar

7 To rotate the component
   (A) Press Ctrl + C
   (B) Press Ctrl + V
   (C) Press Ctrl + R
   (D) Press Ctrl + X
8 When auto save is enabled schematics creates a temporary file whose file name extension ends in
(A) 'a'
(B) 'T'
(C) 's'
(D) 'v'

9 A flipped part is
(A) Mirrored about X – axis
(B) Mirrored about Y – axis
(C) Rotated 90° counter-clockwise
(D) Rotated 60° counter-clockwise

10 Simulation toolbar provides shortcuts for
(A) Analysis setup
(B) Simulation
(C) None
(D) Both Analysis setup and Simulation

11 The function key used to start the simulator
(A) F10
(B) F9
(C) F11
(D) F12

12 Schematics recognizes _____ types of libraries.
(A) One
(B) Two
(C) Three
(D) Four

13 If the objects are to be forced onto grid when placed then
(A) Grid on is disabled
(B) Stay on grid is enabled
(C) Stay on grid is disabled
(D) Snap to grid is enabled

14 The default grid spacing on your drawing area is
(A) 0.10 inches
(B) 0.01 inches
(C) 1 inch
(D) 0.20 inches
15 Color of the warning message in the message viewer
   (A) Blue
   (B) Red
   (C) Yellow
   (D) Black

16 A rotated part is rotated
   (A) 90° counter-clockwise
   (B) 90° clockwise
   (C) 60° counter-clockwise
   (D) 30° counter-clockwise

17 For zooming out to view the full schematic page
   (A) Press ctrl + A
   (B) Press ctrl + J
   (C) Press ctrl + O
   (D) Press ctrl + N

18 _____ allows you to select a new window centering point.
   (A) Fit
   (B) Out
   (C) In
   (D) Pan – new center

19 P-Spice is like a –
   (A) Hardware Breadboard
   (B) Software Breadboard
   (C) Printed Circuit Board
   (D) None of these

20 Select the correct sentence
   (A) Symbol is a graphical representation used in drawing schematics.
   (B) Packaging information is used for board layout.
   (C) Footprint defines the names of the package types.
   (D) If a component can be simulated, it will not have an associated simulation model.
21 A package is characterized by:
   (A) Component name
   (B) Package type / Foot-Print name
   (C) Gate names, Pin names & number
   (D) All of these

22 Standard analysis contains the ______ test to the response of circuit to different inputs.
   (A) Flow analysis
   (B) dc, ac and transient analysis
   (C) thermodynamics analysis
   (D) Mathematical analysis

23 P-SPICE perform
   (A) Standard analysis
   (B) Simple multi-run analysis
   (C) Statistical analysis
   (D) All of these

24 ______ is a type of time based analysis.
   (A) Bias point detail  (B) AC sweep
   (C) Transient          (D) Noise

25 Stimulus editor is a
   (A) Graphical output waveform editor
   (B) Graphical input waveform editor
   (C) Graphical result analyzer
   (D) All of these

26 Schematics consists of
   (A) Symbols, attributes, wires, buses, text items
   (B) electrical parts
   (C) simulation
   (D) Analysis

27 Status bar is located
   (A) At the top of the schematic editor window
   (B) At the bottom of the schematic editor window
   (C) At the left of the schematic editor window
   (D) At the right of the schematic editor window

28 Button name to view a selected area of schematic
   (A) Zoom in          (B) Zoom area
   (C) Zoom out         (D) Zoom to fit page

29 Parts utility is a
   (A) Graphical output waveform editor
   (B) Graphical input waveform editor
   (C) Graphical result analyzer
   (D) Model extractor

30 ______ is a type of library in schematics
   (A) Global           (B) Zoned
   (C) Local            (D) Both Global and Local

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31 ______ specifies the time interval in which schematics automatically saves any modified schematics or libraries.
(A) Stay on grid (B) Snap to grid
(C) Auto save interval (D) Gravity

32 To display the attribute editing dialog box
(A) Single click the part
(B) Left click the part
(C) Double click the part
(D) Right click the part

33 Select the wrong sentence
(A) Schematics allows you to change an attribute on multiple parts at the same time
(B) Schematics does not allow you to change an attribute on multiple parts at the same time
(C) Size determines the size of the text
(D) Double click the part to display the attribute editing dialog box

34 A grid is
(A) Dot matrix within the work area
(B) Line matrix within the work area
(C) Dot matrix outside the work area
(D) Line matrix outside the work area

35 ______ Sets up simulation analyses for the active schematic.
(A) Snap-to-pin (B) Analysis set up
(C) Snap-to-grid (D) Simulator

36 To view bias point values in your schematic
(A) Use buttons on the simulation toolbar
(B) Use VIEWPOINT symbol
(C) Use IPROBE symbol
(D) All of these

37 ______ maintains connectivity between parts when they are moved.
(A) Rubberband (B) Gravity
(C) Orthogonal (D) All

38 For diode characteristics which sweep analysis is used?
(A) ac sweep and noise
(B) dc sweep
(C) ac & dc sweep
(D) None of these

39 File that contains the electrical definition of one or more parts
(A) Circuit file (B) Netlist file
(C) Model library (D) Stimulus file

40 A model defines
(A) The electrical behavior of a part
(B) The non-electrical behavior of a part
(C) Graphical representation of parts
(D) Mathematical representation of parts
41. _____ is a simple multi-run analysis.
   (A) Noise worst case
   (B) dc Sweep Analysis
   (C) Monte-Carlo
   (D) Temperature

42. Minimum requirements to run a DC sweep analysis
   (A) Voltage or current source
   (B) Model parameter
   (C) Global parameter
   (D) All of these

43. In MicroSim libraries DBREAK indicates _____ part type.
   (A) Capacitor
   (B) Diode
   (C) Bipolar transistor
   (D) None

44. Simulation means
   (A) The use of a physical model to represent the mathematical operation of a circuit design
   (B) The use of a mathematical model to represent the physical operation of a circuit design
   (C) The use of a mathematical model to represent the logical operation of a circuit design
   (D) The use of a mathematical model to represent the arithmetic operation of a circuit design

45. To view the simulation results on the screen we use _____.
   (A) Probe
   (B) Port
   (C) Strobe
   (D) None
46 To select a part from the part browser dialog box
   (A) Type the name in the part name text box
   (B) Select the part name from the full list of part names
   (C) Select the part name from the library's list of parts
   (D) All of these

47 For frequency response of a circuit which sweep analysis is used?
   (A) ac sweep and noise
   (B) dc sweep
   (C) ac and dc sweep
   (D) ac sweep

48 Full form of FPGA is
   (A) Field Programmable Gate Array
   (B) Full Programmable Gate Array
   (C) Field Programmable Gate Action
   (D) Field Protecting Gate Array

49 If anything must be done by the user or if there is warning, the prompt will display in the
   (A) Drawing toolbar
   (B) Schematics toolbar
   (C) Status bar
   (D) Simulation toolbar

50 The function ASIN(x) in PSpice A/D means
   (A) sinh(x)
   (B) sin⁻¹ (x)
   (C) sin(x)
   (D) ln(x)