

No. of Pages. 16

Code No.

Y – 3065

Register Number :

Time : 2 Hours

Name :

Max.Marks : 100

**Entrance Examination for Admission to the M.Tech. Courses in the
Teaching Departments, 2026**

CSS

TECHNOLOGY MANAGEMENT

GENERAL INSTRUCTIONS

1. The Question Paper is having 100 Objective Questions, each carrying one mark.
2. The answers are to be marked **only** in the “**OMR Sheet**” provided.
3. **Negative marking : 0.25 marks** will be deducted for each wrong answer .

INSTRUCTIONS FOR FILLING THE OMR SHEET

- The OMR sheet should not be folded or crushed.
- Use only blue/black ball point pen to fill the circles.
- Use of pencil is strictly prohibited.
- Circles should be darkened completely and properly.
- Cutting and erasing on this sheet is not allowed.
- Do not leave any stray marks on the sheet.
- Do not use marker or white fluid to hide the mark.

• **WRONG METHODS**



CORRECT METHOD



DO NOT WRITE HERE

Choose appropriate answer from the options in the questions.

(100 × 1 = 100 marks)

1. The correlation coefficient between two variables X and Y is 0.4. The correlation coefficient between 2X and (-Y) will be
 - A. 0.4
 - B. -0.8
 - C. -0.4
 - D. 0.8
2. If the difference between the mode and median is 2, then find the difference between the median and mean
 - A. 2
 - B. 1
 - C. 3
 - D. 4

21. What is the purpose of a transistor in electronic circuits?
- To filter noise
 - To amplify or switch electronic signals
 - To regulate voltage
 - To store data
22. What is the function of an inductor?
- Makes the change in current
 - Allows the constant current
 - Oppose the change in current
 - Allows the change in current
23. The temperature coefficient is linear over a large range of temperature for which material?
- Copper
 - Tungsten
 - Platinum
 - Nickel
24. The diode current equation is not applicable in _____.
- Forward biased state
 - Reverse Biased state
 - Unbiased state
 - All of the above
25. Ripple factor of half wave rectifier is _____.
- 1.414
 - 1.21
 - 1.3
 - 0.48
26. Which gates in Digital Circuits are required to convert a NOR _____ based SR latch to an SR flip—flop?
- Two 2 input AND gates
 - Two 3 input AND gates
 - Two 2 input OR gates
 - Two 3 Input OR gates
27. A Control system working under unknown random actions is called _____.
- Adaptive control system
 - Stochastic control system
 - Computer control system
 - Digital Data System

36. DC generator will not self-excite in _____.
- A. Positive feed back
 - B. Zero feed back
 - C. Does not depend on feed back
 - D. Negative feed back
37. Which of the following device is used to measure power in A.C circuits?
- A. Ammeter
 - B. Voltmeter
 - C. Ohmmeter
 - D. None of these
38. What determines light intensity in a cathode Ray Tube?
- A. Voltage
 - B. Current
 - C. Momentum of electrons
 - D. Fluorescent screen
39. Which of the following operation is used to make a ball bearing?
- A. Upsetting
 - B. Press forging
 - C. Roll forging
 - D. Skew rolling
40. Which of the following are clearing fluids?
- A. Emulsions
 - B. Solvents
 - C. Alkaline solutions
 - D. All of the above
41. Tensile strength of an alloy steel can be improved by adding _____.
- A. Nickel
 - B. Vanadium
 - C. Manganese
 - D. Titanium
42. Hobbing is a special type of which of the following?
- A. Casting
 - B. Grinding
 - C. Drilling
 - D. Milling
43. Friction welding produces welds due to _____.
- A. Electrode melting
 - B. Work pieces melting
 - C. Relative motion between work pieces
 - D. Adhesive force between work pieces

44. Which of the following kind of energy output is obtained from a steam power plant?
- A. Electricity
B. Thermal Energy
C. Sound Energy
D. Heat Energy
45. Which stress occurs when there is an eccentric load applied?
- A. Thermal stress
B. Tensile stress
C. Bending stress
D. Shear stress
46. Which of the following part does not include an automobile chassis?
- A. Differential
B. Brakes
C. Steering system
D. Shock absorbers
47. Which of the following water treatment process is done after filtration of water?
- A. Secondary Sedimentation
B. Disinfection
C. Primary sedimentation
D. Flocculation
48. Which of the following type of pollution is cultural eutrophication?
- A. Noise pollution
B. Air pollution
C. Thermal pollution
D. None of these
49. Which process of water treatment is done to avoid floating debris in water?
- A. Primary sedimentation
B. Secondary sedimentation
C. Screening
D. Aeration
50. Which of the following is not a part of photochemical smog?
- A. SPM
B. PAN
C. OZONE
D. NO₂
51. Which of the following is a prime number?
- A. 575
B. 517
C. 533
D. None of these
52. Find the sum of two numbers, whose product is 200 and difference is minimum
- A. 33
B. 55
C. 27
D. None of these

86. If 'white' is called 'yellow', 'yellow' is called 'blue', 'blue' is called 'red', 'red' is called 'black' and 'black' is called 'violet', then what would be the colour of human blood?
- A. Red
B. Violet
C. Black
D. Yellow
87. A and B are the children of M. If M is the mother of A but B is not the son of M, then what is the relationship between B and M?
- A. Sister and Brother
B. Daughter and Mother
C. Niece and Uncle
D. Insufficient data
88. If P is sister of T, V is brother of K and T is son of V.M is mother of P, L is son of K. How is V related to M?
- A. Father
B. Grandson
C. Brother
D. Husband
89. K is the son of A's mother's sister. Q is daughter of D, who is the father of G and grandfather of A. P is the Daughter of H who is grandmother of K. D is husband of H and G is husband of L. How is K related to A?
- A. Mother
B. Sister
C. Daughter
D. Cousin
90. DEFG : NOPQ :: KLMN : ?
- A. ABCD
B. UVWX
C. WXYZ
D. GHJK
91. China : CNSA :: Japan : ?
- A. NASA
B. ISRO
C. JAXA
D. ESA
92. Depraved Sinful :: Sprint:?
- A. Dash
B. Induce
C. Strange
D. Standing
93. In a row of 26 girls, when Sakshi shifted four places towards the left, she become 10th from the left end. What was her earlier position form the right end of the row?
- A. 10th
B. 11th
C. 12th
D. 13th

ROUGH WORK

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