

As per C-20 syllabus



# D-CET

Diploma Common Entrance Test

- Introduction to D-CET Entrance Exam
- Exam Pattern, Important Dates & Syllabus
- D-CET 2023 & 2024 Question Paper with Solutions



T.T.T Academy

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**1<sup>st</sup>  
RANK  
State  
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**SANTHRUPT H. R.**

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- **Test System :** Regular Mock test on every sunday.
- A year long course programme for DCET by resource persons and subject experts.
- All competitive exams for KPSC, KPTCL, KPCL, BMRCL, ISRO, HAL, BEL, KSRTC, BHEL, DRDO, **JE & AE** posts exams.
- Orientation sessions for parents to involve them in our pursuit.
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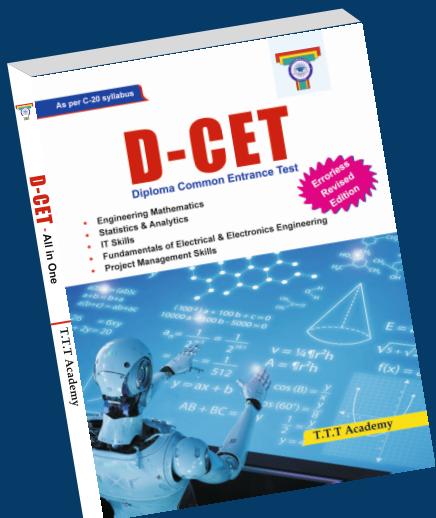


**Dr. Savina J.P B.E., M.E., Ph.D  
(Managing Director)**

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- 92+ Questions from our books have appeared in the D-CET 2023 exam.**
- 93+ Questions from our books have appeared in the D-CET 2024 exam.**



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**ADMISSIONS OPEN FOR DIPLOMA CET (D-CET)**

## Diploma CET Course Details

### Long Term Course

- Duration : Till Exam Date.
- Weekend Classes + Daily 2 hr Classes + 4-5 hrs of Classes in Crash Course.
- Offline & Online live classes.
- Mock Tests.
- Recorded Classes Available.

### Short Term Course

- Duration : After 5th Sem. Exams.
- Every day 2 hr Classes + 4-5 hrs of Classes in Crash Course.
- Offline & Online live classes.
- Mock Tests.
- Recorded Classes Available.

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- Duration : After 6th Sem. Exams.
- Every day 4-5 hrs of Classes.
- Offline & Online live classes.
- Mock Tests.
- Recorded Classes Available.

## OUR STUDENTS TESTIMONIALS



TTT Institution has provided excellent guidance for DCET preparation, ensuring my success and securing 1st rank in Karnataka State. I am also thankful to my friends who played a crucial role in helping me achieving this milestone. Special gratitude to Savin Sir and the dedicated team for their effective online coaching classes. The regular mock tests helps us identify and rectify our mistake and with no doubt TTT Institution has helped many students across Karnataka to secure good ranking in DCET by providing both online and offline classes with well-equipped classroom, study material and infrastructure !!

**Santhrupth H R**  
State 1<sup>st</sup> Rank Holder



Thank you so much sir  
For everything from "Book to Coaching".

It helped a lot to crack D-CET and proud to say i secured 7th Rank, not only D-CET success but also i motivated for future competition , these 2 months of coaching had changed alot in my mindset.

**Srujan Buddar**  
State 7<sup>th</sup> Rank Holder



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# **Diploma CET**

**ENTRANCE EXAM DETAILS**

**SYLLABUS**

**Question Paper with Solutions  
[2023 & 2024]**

**Engineering Mathematics, Statistics & Analysis,  
Project Management Skills, IT Skills, FEEE**



**T.T.T. ACADEMY**

**Trusted No. 1 D-CET Coaching Centre as per Students**

# INTRODUCTION TO D-CET ENTRANCE EXAM

DCET - Diploma Common Entrance Test which is conducted by the Karnataka Examination Authority (KEA). The entrance exam is a requirement for enrolment in the second-year undergraduate engineering programmes offered through the lateral entry programme. In Karnataka, these programmes are offered at both day and evening colleges.

## D-CET EXAM PATTERN

DCET Conducting Authority	Karnataka Examination Authority
Frequency of Conduct	1 yearly once
Exam level	State level
Languages	English
Application Mode	Online
Mode of Exam	Offline / Online
Exam Duration	3 hours
Number of Subjects	5
Total Questions	100
Total Marks	100
Mode of Counselling	Online / Offline

## D-CET TENTATIVE IMPORTANT DATES

Events	Dates
Application form starts	1 <sup>st</sup> Week of May
Last date for application submission	3 <sup>rd</sup> Week of May
D-CET exam date	Month of June
Counselling date	Month of July

# DCET 2024 - Question Paper & Solutions

1. If  $A = \begin{bmatrix} 3 & -2 \\ 4 & 1 \end{bmatrix}$  and  $A - B = \begin{bmatrix} 5 & -3 \\ 4 & 6 \end{bmatrix}$ , then matrix  $B$  is \_\_\_\_\_.

- a)  $\begin{bmatrix} -3 & 2 \\ -4 & -1 \end{bmatrix}$
- b)  $\begin{bmatrix} -5 & 3 \\ -4 & -6 \end{bmatrix}$
- c)  $\begin{bmatrix} -2 & 1 \\ 0 & -5 \end{bmatrix}$
- d)  $\begin{bmatrix} 2 & -1 \\ 0 & 5 \end{bmatrix}$

*Ans : (c)*

Given,  $A = \begin{bmatrix} 3 & -2 \\ 4 & 1 \end{bmatrix}$  and  $A - B = \begin{bmatrix} 5 & -3 \\ 4 & 6 \end{bmatrix}$

$$\therefore \begin{bmatrix} 3 & -2 \\ 4 & 1 \end{bmatrix} - \begin{bmatrix} 5 & -3 \\ 4 & 6 \end{bmatrix} = B$$

$$B = \begin{bmatrix} -2 & 1 \\ 0 & -5 \end{bmatrix}$$

2. If  $\begin{bmatrix} 3 & -4 \\ 9 & 2 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 10 \\ 2 \end{bmatrix}$ , then the values of  $x$  and  $y$  are \_\_\_\_\_

- a)  $\left(\frac{2}{3}, -2\right)$
- b)  $\left(2, \frac{2}{3}\right)$
- c)  $\left(-2, \frac{2}{3}\right)$
- d)  $\left(\frac{-2}{3}, 2\right)$

*Ans : (a)*

Given  $\begin{bmatrix} 3 & \xrightarrow{-4} \\ 9 & 2 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} \downarrow = \begin{bmatrix} 10 \\ 2 \end{bmatrix}$

$$\begin{bmatrix} (3x) + (-4y) \\ (9x) + (2y) \end{bmatrix} = \begin{bmatrix} 10 \\ 2 \end{bmatrix}$$

$$\begin{bmatrix} 3x - 4y \\ 9x + 2y \end{bmatrix} = \begin{bmatrix} 10 \\ 2 \end{bmatrix}$$

$$\therefore 3x - 4y = 10$$

$$9x + 2y = 2 \rightarrow 2$$

$$3x - 4y = 10 \quad \therefore 3x - 4y = 10$$

$$\frac{18x + 4y = 4}{\cancel{3x - 4y = 10}}$$

Adding

$$21x = 14$$

$$x = \frac{14}{21}$$

$$x = \frac{2}{3}$$

$$2 - 10 = 4y$$

$$-8 = 4y$$

$$\frac{-8}{4} = y$$

$$\therefore y = -2$$

3. If  $A = \begin{bmatrix} -2 & 6 \\ -2 & 3 \end{bmatrix}$ , then  $A^{-1}$  is \_\_\_\_\_.

a)  $\frac{1}{18} \begin{bmatrix} 3 & -6 \\ 2 & -2 \end{bmatrix}$

b)  $\frac{1}{6} \begin{bmatrix} 3 & -6 \\ 2 & -2 \end{bmatrix}$

c)  $\begin{bmatrix} 3 & -6 \\ 2 & -2 \end{bmatrix}$

d)  $\frac{1}{6} \begin{bmatrix} -2 & 6 \\ -2 & 3 \end{bmatrix}$

*Ans : (b)*

Given  $A = \begin{bmatrix} -2 & 6 \\ -2 & 3 \end{bmatrix}$ ,  $|A| = \begin{vmatrix} -2 & 6 \\ -2 & 3 \end{vmatrix} = -6 - (-12)$   
 $|A| = -6 + 12 = 6$

W.K.T.  $A^{-1} = \frac{1}{|A|}$

$\therefore \text{Adjoint of } A = \begin{bmatrix} 3 & -6 \\ 2 & -2 \end{bmatrix}$  and

$$\therefore A^{-1} = \frac{1}{6} \begin{bmatrix} 3 & -6 \\ 2 & -2 \end{bmatrix}$$

4. If  $x + y = 3$  and  $2x + 3y = 8$  are the linear equations, then  $x$  and  $y$  are \_\_\_\_.

- a)  $(1, -2)$
- b)  $(1, 2)$
- c)  $(-1, -2)$
- d)  $(-1, 2)$

Ans : (b)

$$x + y = 3 \rightarrow (\text{i}) \text{ and } 2x + 3y = 8 \rightarrow (\text{ii})$$

$$x + y = 3 \rightarrow \times 2$$

$$\cancel{2x} + 2y = 6$$

$$\cancel{2x} + 3y = 8$$

$$-y = -2$$

$$y = 2$$

Put  $y = 2$  in equation (i)

$$x + y = 3$$

$$x + 2 = 3$$

$$x = 3 - 2$$

$$x = 1$$

5. If the straight line is  $2y = 3x + 4$ , then the  $y$ -intercept is \_\_\_\_.

- a) 4
- b) 2
- c)  $\frac{-4}{3}$
- d) -2

Ans : (b)

$$\text{Given } 2y = 3x + 4$$

$$0 = 3x - 2y + 4$$

$$3x - 2y + 4 = 0$$

$$y - \text{intercept} = \frac{-c}{b} = \frac{-4}{-2} = 2$$

6. The acute angle of inclination made by the line  $3x - 3y - 2 = 0$  with positive x-axis is \_\_\_\_.

- a)  $135^\circ$
- b)  $30^\circ$
- c)  $45^\circ$
- d)  $0^\circ$

Ans : (c)

$$\text{Given } 3x - 3y - 2 = 0$$

$$\text{Slope, } m = \frac{-a}{b} = \frac{-3}{-3} = 1$$

$$\text{w.k.t } m = \tan 45^\circ = 1 \quad \therefore \text{inclination } \theta = 45^\circ$$

7. The slope of a straight line passing through the points  $(1, 2)$  and  $(5, -3)$  is \_\_\_\_.

- a)  $\frac{5}{4}$
- b)  $\frac{1}{6}$
- c)  $\frac{-1}{4}$
- d)  $\frac{-5}{4}$

Ans : (d)

$$\text{Given } (x_1, y_1) = (1, 2) \text{ and } (x_2, y_2) = (5, -3)$$

$$\text{Slope } m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-3 - 2}{5 - 1} = \frac{-5}{4}$$

8. If the slope of the straight line is  $-\frac{3}{2}$  and

$y$ -intercept is  $\frac{5}{2}$ , then the equation of the straight line is \_\_\_\_.

- a)  $3x + 2y - 5 = 0$
- b)  $3x - 2y - 5 = 0$
- c)  $3x + 2y + 5 = 0$
- d)  $3x - 2y + 5 = 0$

Ans : (a)

$$\text{Given, slope, } m = \frac{-3}{2} \text{ and } y - \text{intercept, } c = \frac{5}{2}$$

(Slope - intercept form)

$$y = mx + c$$

$$y = \frac{-3}{2}x + \frac{5}{2}$$

$$y = \frac{-3x + 5}{2}$$

$$2y = -3x + 5$$

$$3x + 2y - 5 = 0$$

9. The line perpendicular to the straight line  $5x - y + 1 = 0$  and passing through the point  $(2, 3)$  is \_\_\_\_.

- a)  $x - 5y - 17 = 0$     b)  $x + 5y - 13 = 0$   
 c)  $x + 5y - 17 = 0$     d)  $x + 5y + 13 = 0$

**Ans : (c)**

Given line  $5x - y + 1 = 0$  and point  $(2, 3) = (x_1, y_1)$

$$\text{Slope of perpendicular line} = \frac{b}{a} = \frac{-1}{5}$$

(slope-point form)

$$y - y_1 = m(x - x_1)$$

$$(y - 3) = \frac{-1}{5}(x - 2)$$

$$5y - 15 = -1x + 2$$

$$1x + 5y - 15 - 2 = 0$$

$$x + 5y - 17 = 0$$

**10. The value of  $\cot 660^\circ$  is \_\_\_\_\_.**

- a)  $\frac{-1}{\sqrt{3}}$     b)  $\sqrt{3}$   
 c)  $\frac{1}{\sqrt{3}}$     d)  $-\sqrt{3}$

**Ans : (a)**

Given,  $\cot 660^\circ$

$$\cot 660^\circ = \cot(360^\circ + 300^\circ)$$

$$= \cot 300^\circ$$

$$= \cot(270^\circ + 30^\circ)$$

$$= -\tan 30^\circ$$

$$\cot 660^\circ = -\frac{1}{\sqrt{3}}$$

**11. The value of  $\cos 75^\circ$  is \_\_\_\_\_.**

- a)  $\frac{\sqrt{3}+1}{2\sqrt{2}}$     b)  $\frac{\sqrt{3}+1}{\sqrt{3}-1}$   
 c)  $\frac{\sqrt{3}-1}{2\sqrt{2}}$     d)  $\frac{\sqrt{3}-1}{\sqrt{3}+1}$

**Ans : (c)**

$$\begin{aligned}\cos 75^\circ &= \cos(45^\circ + 30^\circ) \\ &= \cos(A + B)\end{aligned}$$

$$\begin{aligned}&= (\cos A \cdot \cos B) - (\sin A \cdot \sin B) \\ &= (\cos 45^\circ \times \cos 30^\circ) - (\sin 45^\circ \times \sin 30^\circ)\end{aligned}$$

$$\begin{aligned}&= \left( \frac{1}{\sqrt{2}} \times \frac{\sqrt{2}}{2} \right) - \left( \frac{1}{\sqrt{2}} \times \frac{1}{2} \right) \\ &= \frac{\sqrt{3}}{2\sqrt{2}} - \frac{1}{2\sqrt{2}} = \frac{\sqrt{3}-1}{2\sqrt{2}}\end{aligned}$$

**12. If a ladder is inclined to the wall with base angle  $30^\circ$ , then the angle in radians is \_\_\_\_\_.**

- a)  $\frac{\pi}{3}$     b)  $\frac{\pi}{4}$   
 c)  $\frac{\pi}{2}$     d)  $\frac{\pi}{6}$

**Ans : (d)**

Given angle  $\theta = 30^\circ$

$$\begin{aligned}\text{Angle in radian} &= \frac{\pi}{180^\circ} \times \theta = \frac{\pi}{180^\circ} \times 30^\circ \\ &= \frac{\pi}{6} \text{ radian}\end{aligned}$$

**13. If  $\sin A = \frac{3}{5}$  and  $\cos B = \frac{12}{13}$ , then  $\cos(A - B)$  is \_\_\_\_\_.**

- a)  $\frac{-33}{65}$     b)  $\frac{63}{65}$   
 c)  $\frac{-63}{65}$     d)  $\frac{33}{65}$

**Ans : (b)**

$$\text{Given } \sin A = \frac{3}{5} = \frac{\text{opp}}{\text{Hyp}}, \quad \cos B = \frac{12}{13} = \frac{\text{adj}}{\text{hyp}}$$

Triplets

3	4	5
---	---	---

opp ↑ Hyp

adj

Triplets

5	12	13
---	----	----

↑ Adj Hyp

opp

$$\therefore \cos A = \frac{\text{Adj}}{\text{Hyp}} = \frac{4}{5} \quad \sin B = \frac{\text{Opp}}{\text{Hyp}} = \frac{5}{13}$$

$$\begin{aligned}
 \cos(A-B) &= (\cos A \cdot \cos B) + (\sin A \cdot \sin B) \\
 &= \left(\frac{4}{5} \times \frac{12}{13}\right) + \left(\frac{3}{5} \times \frac{5}{13}\right) \\
 &= \frac{48}{65} + \frac{15}{65} \\
 &= \frac{48+15}{65} = \frac{63}{65}
 \end{aligned}$$

14. If  $y = 2 \sin x - 4 \cot x + e^{-x} + 7$ , then  $\frac{dy}{dx}$  is \_\_\_\_.
- a)  $-2 \cos x - 4 \operatorname{cosec}^2 x - e^{-x} + 7x$
  - b)  $2 \cos x + 4 \operatorname{cosec}^2 x - e^{-x}$
  - c)  $2 \cos x + 4 \operatorname{cosec}^2 x + e^x + 7$
  - d)  $2 \sin x - 4 \operatorname{cosec}^2 x + e^x$

*Ans : (b)*

$$\text{If } y = 2 \sin x - 4 \cot x + e^{-x} + 7$$

$$\begin{aligned}
 \frac{dy}{dx} &= 2 \cos x - 4(-\operatorname{cosec}^2 x) - e^{-x} \\
 &= 2 \cos x + 4 \operatorname{cosec}^2 x - e^{-x}
 \end{aligned}$$

15. If  $y = \left(x + \frac{1}{x}\right)^2$ ,  $\frac{dy}{dx}$  is:

- a)  $x^2 + \frac{1}{x^2} + 2$
- b)  $2x + \frac{1}{x^2}$
- c)  $2x - \frac{2}{x^3}$
- d)  $2x + \frac{1}{x}$

*Ans : (c)*

$$\text{If } y = \left(x + \frac{1}{x}\right)^2$$

$$y = x^2 + \frac{1}{x^2} + \frac{2x}{x}$$

$$y = x^2 + \frac{1}{x^2} + 2$$

$$dy = 2x - \frac{2}{x^3} + 0 = 2x - \frac{2}{x^3}$$

16. If  $y = e^{3x} + e^{7x}$ , then  $\frac{d^2y}{dx^2}$  at  $x = 0$  is \_\_\_\_.
- a) 10
  - b) 58
  - c) 1
  - d) 2

*Ans : (b)*

$$\text{If } y = e^{3x} + e^{7x} \text{ at } x = 0$$

$$\frac{dy}{dx} = 3e^{3x} + 7e^{7x}$$

$$\frac{d^2y}{dx^2} = 3.3 e^{3x} + 7.7 e^{7(0)}$$

$$= 3.3 e^{3(0)} + 7.7 e^{3(0)} \quad \text{w.k.t, } e^0 = 1$$

$$= 9(1) + 49(1)$$

$$= 58$$

17. If  $y = \log(\sec x + \tan x)$ , then  $\frac{dy}{dx}$  is \_\_\_\_.

- a)  $\sec x + \tan x$
- b)  $\frac{1}{\sec x + \tan x}$
- c)  $\sec x$
- d)  $\sec^2 x$

*Ans : (c)*

$$y = \log(\sec x + \tan x)$$

$$\frac{dy}{dx} = \frac{1}{\sec x + \tan x} \frac{d}{dx}(\sec x + \tan x)$$

$$= \frac{\sec x \cdot \tan x + \sec^2 x}{\sec x + \tan x}$$

$$= \frac{\sec x (\sec x + \tan x)}{\sec x + \tan x} = \sec x$$

18.  $\int (3x^2 + 2x + 2)^{3/2} (3x+1) dx$  is \_\_\_\_.

- a)  $\frac{(3x+5)}{5} + C$
- b)  $\left(\frac{3x-5}{5}\right) + C$
- c)  $\left(\frac{3x^2-2x-2}{5}\right)^{5/2}$
- d)  $\frac{(3x^2+2x+2)^{5/2}}{5} + C$

**Ans : (d)**

$$\int (3x^2 + 2x + 2)^{\frac{3}{2}} (3x + 1) dx$$

By logic

$$\frac{2}{5} \left( \frac{3x^2 + 2x + 2}{2} \right)^{\frac{5}{2}} + C$$

$$\left( \frac{3x^2 + 2x + 2}{5} \right)^{\frac{5}{2}} + C$$

$$3x^2 + 2x + 2$$

$$\frac{dy}{dx} = 6x + 2 + 0$$

$$\frac{dy}{dx} = 2(3x + 1)$$

19. The integral of  $x^3 + \frac{1}{x} + e^x$  is \_\_\_\_\_

a)  $\frac{x^4}{4} + \log x - e^x + C$

b)  $\frac{x^4}{4} + \log x + e^x + C$

c)  $3x^2 - \frac{1}{x^2} + e^x + C$

d)  $3x^2 - \frac{1}{x^2} - e^x + C$

**Ans : (b)**

$$\int x^3 + \frac{1}{x} + e^x dx$$

$$= \frac{x^4}{4} + \log x + e^x + C$$

20.  $\int x \sin x dx =$  \_\_\_\_\_.

- a)  $x \cos x - \sin x + C$    b)  $-x \cos x + \sin x + C$   
 c)  $x \cos x + \sin x + C$    d)  $-x \cos x - \sin x + C$

**Ans : (b)**

$$\int x \sin x dx$$

$$= [x] [-\cos] - [1] [-\sin x] + \underbrace{[0]}_0 [ ]$$

$$= -x \cos x + \sin x + C$$

21. Which of the following are not obstacles in project management?

- a) Project complexities      b) Project risks  
 c) Changes in technology    d) Early identification of problems

**Ans : (d)**

Early identification of problems is the benefit of project management and it is not an obstacle.

22. \_\_\_\_\_ provides guidance as well as direction to the project and he/she is *not* a part of the project team.

- a) CEO      b) Project Manager  
 c) Team Leader      d) Project Consultant

**Ans : (d)**

Project consultant guides the project but not a part of the project team.

23. Repair of dam in case of damage due to natural calamities is an example of \_\_\_\_\_.

- a) Normal project      b) Crash project  
 c) Risky project      d) Disaster project

**Ans : (d)**

Project performed due to effect of natural calamities is known as disaster project.

24. \_\_\_\_\_ refers to a detailed description of the expected outcome of a project.

- a) Project scope      b) Project operation  
 c) Project objective      d) Project process

**Ans : (c)**

Project objective illustrate the tasks you execute to achieve the result.

25. The process of dividing the project into number of tasks in order to carry out the effective project administration is:

- a) PPM      b) WBS  
 c) PEP      d) Project diary

**Ans : (b)**

Work Breakdown structure (WBS) is the process of dividing the project work into number of tasks.

**26. The project \_\_\_\_\_ relieves a project team from most regular work such as planning, tracking and reporting responsibility.**

- a) Manager      b) CEO
- c) Administration      d) Leader

**Ans : (c)**

Project administration relieves a project team.

**27. The use of authority to channelize the activities of the project on desired lines is referred to as \_\_\_\_\_.**

- a) Project direction      b) Project coordination
- c) Project communication      d) Project execution

**Ans : (a)**

Project direction channelizes the activities of the project on desired lines.

**28. \_\_\_\_\_ illustrates total project work into divisions of major work packages.**

- a) PERT      b) CPM
- c) WBS      d) PEP

**Ans : (c)**

WBS divides the work into major packages

**29. \_\_\_\_\_ is a condition wherein a construction or manufacturing project does not complete well within its prescribed time schedule.**

- a) Time analysis      b) Time estimate
- c) Time overrun      d) Cost overrun

**Ans : (c)**

Overrun of a time is a condition where project cannot be completed within its prescribed time schedule.

**30. A project \_\_\_\_\_ creates damages or adverse effects to either project activities or project deliverables.**

- a) Failure      b) Undertaken
- c) Risk      d) Analysis

**Ans : (c)**

Damages or uncertainties affects the project is known as risk.

**31. Identify the correct risk analysis which has typically one variable changed at a time**

- a) Sensitivity Analysis
- b) Scenario Analysis
- c) Best and Worst Case Analysis
- d) Simulation Analysis

**Ans : (a)**

Sensitivity Analysis where studies done by changing one variable at a time.

**32. Risk usually \_\_\_\_\_ as the project progresses.**

- a) Increases      b) Reduces
- c) Remains same      d) Becomes negligible

**Ans : (b)**

As project progress towards goal risk usually reduces.

**33. In 'SMART', the letter R stands for \_\_\_\_\_.**

- a) Realistic      b) Reliable
- c) Reasonable      d) Relation

**Ans : (a)**

The full form of SMART.

S - Specific

M - Measurable

A - Achievable

R - Realistic

T - Timely

**34. \_\_\_\_\_ is a step-by-step process of collecting, recording and organising information about project results.**

- a) Project planning
- b) Project evaluation
- c) Project scheduling
- d) Project monitoring

**Ans : (b)**

Project evaluation is a process where information are collected recorded and organised to check about project results.

**35. Which one of the following is *not* a policy of a project?**

- a) Extent of work given to outside contractors
- b) Number of contractors to be employed
- c) Monitoring the progress of project
- d) Terms of contract

**Ans : (c)**

Monitoring the progress of project is the phase of project life cycle, not a policy.

**36. The scheduling, 'EST' stands for:**

- a) Easiest Start Time      b) Earliest Start Time
- c) Earliest Schedule Time
- d) Earliest Schedule Technique

**Ans : (b)**

EST - Earliest Start Time

**37. \_\_\_\_\_ is an expert in measuring, confirming, investigating and reporting status of a project.**

- a) Project Guide      b) Project Reviewer
- c) Project Auditor      d) Project Advisor

**Ans : (c)**

Project Auditor is the one who reports the status of a project.

**38. \_\_\_\_\_ is the time estimate if there are no hurdles in an activity.**

- a) Pessimistic time      b) Optimistic time
- c) Most likely time      d) Expected estimated time

**Ans : (b)**

Optimistic time is where project time is scheduled based on quickest completion of time without any risk.

**39. \_\_\_\_\_ is the last phase of the project life cycle which reports overall achievements of a project in terms of defined performance measures.**

- a) Project closure      b) Project initiation
- c) Project execution      d) Project planning

**Ans : (a)**

Project closure is the final phase of the project life cycle.

**40. The objective of network analysis in a project is to \_\_\_\_\_.**

- a) Minimise total project duration
- b) Minimise total project cost
- c) Minimise production delays
- d) Minimise manpower requirements

**Ans : (a)**

Minimize total project duration is the objective of network analysis.

**41. What is the output of the following?**

```

a = 10
if (a > 1) then
    print "TWENTY"
else
    print "TEN"
a) 10          b) TEN
c) TWENTY      d) No Output

```

**Ans : (c)**

Assignment:  $a = 10$

This line assigns the value 10 to the variable a  
Conditional statement: if( $a > 1$ ) then

This line starts a conditional statement. The condition being checked is whether the value of a is greater than 1. In this case, it is (since 10 is greater than 1).

Print statement: print "TWENTY" If the condition is true, this line would print the word "TWENTY"

Else statement : else This line indicates the start of the else block of the conditional statement.

Print statement : print "TEN" This line would print the word "TEN" if the condition in the if statement is not true.

Since the value of a is 10, which is greater than 1, the condition in the if statement is true.

**42. The symbol used to connect two parts of a big flowchart is \_\_\_\_\_.**

- a) Oval
- b) Rectangle
- c) Diamond
- d) Circle

**Ans : (d)**

In flowcharts, circles are used as connector symbols to show the continuation of the flow across multiple pages or through a complex chart.

**43. Which symbol is used to represent start or stop in a flowchart?**

- a) Rectangle
- b) Diamond
- c) Oval
- d) Circle

**Ans : (c)**

In standard flowcharting practices, the oval symbol is used to represent the start and end points of a process

**44. What does CSS stand for?**

- a) Colourful Style Sheet
- b) Cascading Style Sheet
- c) Creative Style Sheet
- d) Computer Style Sheet

**Ans : (b)**

The fullform of CSS is cascading style sheet

**45. Which of the following is *not* a web browser?**

- a) Google Chrome
- b) Netscape Navigator
- c) Safari
- d) Apache

**Ans : (d)**

Google Chrome: Google Chrome is a popular web browser developed by Google

Netscape Navigator: Netscape Navigator was one of the first popular web browsers

Safari: Safari is a web browser developed by Apple.

Apache: Apache is a web server software, not a web browser.

**46. What is the correct syntax to change the background colour with CSS?**

- a) background-color = "purple";
- b) background-color : purple;
- c) background-color = orange
- d) change-background-color : purple

**Ans : (b)**

background-color is a property in CSS that specifies the background color of an element.

**The colon :** separates the property name from the value.

purple is the value assigned to the property, which in this case sets the background color to purple.

**47. Which HTML tag gives a scrolling effect of a given text?**

- a) <div>
- b) <scroll>
- c) <marquee>
- d) <effect>

**Ans : (c)**

The <marquee> tag is an HTML tag that is used to create scrolling text

**48. ERP package will handle \_\_\_\_\_ business functionality / functionalities.**

- a) One
- b) Two
- c) Three
- d) Multiple

**Ans : (d)**

ERP integrates all the functional unit.

**49. Which one is a type of organizational structure?**

- a) Responsibility structure
- b) Behavioural structure
- c) Functional structure
- d) Relational structure

**Ans : (c)**

Functional structure is a type of organisational structure where it works on the basis of functional units.

**50. The \_\_\_\_\_ describes how an actor uses a system to accomplish a particular goal for describing the activities.**

- a) Process case
- b) Work case
- c) Use case
- d) Sub process

**Ans : (c)**

Use case describes how an employee uses a system.

**51. Which of the following is not a characteristic of First-generation ERP system?**

- a) They were based on mainframe computer
- b) They focused on accounting and finance
- c) They used centralized database
- d) They supported real-time data processing

**Ans : (d)**

First generation ERP stand alone applications designed to automate specific functions such as inventory management, accounting and order processing.

**52. Which cloud service model enables users to develop, run, manage application without worrying about underlying infrastructure?**

- a) IAAS   b) PAAS   c) SAAS   d) NAAS

**Ans : (b)**

Platform as a Service (PaaS): PaaS provides a platform for developing, deploying, and managing applications. Users don't have to worry about managing the underlying infrastructure.

**53. Which of the following is *not* a Google application?**

- a) Google Docs      b) Google slides
- c) Google Sheets     d) Google Word

**Ans : (d)**

Google Word is not a Google application. The correct name for Google's word processing application is Google Docs

**54. IoT is a \_\_\_\_\_.**

- a) Network of sensors
- b) Network of objects in a ring structure
- c) Network of virtual objects
- d) Network of physical objects embedded with sensors.

**Ans : (d)**

IoT refers to the network of physical objects or "things" that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the internet.

**55. \_\_\_\_\_ is a file storage and synchronization service developed by Google which provides complete office tools with cloud storage.**

- a) Google Colab      b) Google Drive
- c) Google Meet        d) AWS Cloud

**Ans : (b)**

Google Drive is a file storage and synchronization service developed by Google that provides cloud storage, file sharing, and collaborative editing. It integrates with Google's office suite of tools, such as Google Docs, Google Sheets, and Google Slides

**56. Which of the following is not a security issue in a personal computer?**

- a) Ransomware Attack
- b) Data Breach
- c) Code Injection
- d) IoT

**Ans : (d)**

The Internet of Things (IoT) is a network of physical objects that are embedded with sensors, software, and other technologies to connect and exchange data with other devices and systems over the internet.

**57. Which of the following is *not* a firewall?**

- a) Packet filtering      b) Stateful inspection
- c) Panda                  d) Circuit Level Gateway

**Ans : (c)**

Panda is not a type of firewall; it is a brand name associated with cybersecurity products, including antivirus software. The other options-packet filtering, stateful inspection, and circuit-level gateway-are all types of firewalls.

**58. "S" in HTTPS stands for \_\_\_\_\_.**

- a) Safe                  b) Secure
- c) System                d) Server

**Ans : (b)**

In HTTPS, the "S" stands for Secure. HTTPS is a protocol for secure communication over a computer network.

**59. The process used to get an output 43205 from a given input "DCTE" is \_\_\_\_\_**

- a) Hashing
- b) Compression
- c) Decompression
- d) Encryption

**Ans : (a)**

Hashing is a process that converts an input of any size into a fixed-length alphanumeric string. In this case, "DCTE" would be converted into a string of numbers and letters, potentially resulting in something like "43205" ..

**60.  $a = 10$**

$$b = 20$$

$$a = a + b$$

$$b = a - b$$

$$a = a - b$$

**The final values of a and b are:**

- a)  $a = 30, b = 10$
- b)  $a = 30, b = 20$
- c)  $a = 20, b = 10$
- d)  $a = 20, b = 30$

**Ans : (c)**

1.  $a = 10$ : This assigns the value 10 to variable  $a$ .
  2.  $b = 20$ : This assigns the value 20 to variable  $b$ .
  3.  $a = a + b$ : This adds the current value of  $b$  (which is 20) to the current value of  $a$  (which is 10) and stores the result back into  $a$ . So now,  $a$  becomes 30 ( $10 + 20$ ).
  4.  $b = a - b$ : This subtracts the current value of  $b$  (which is still 20) from the current value of  $a$  (which is now 30) and stores the result back into  $b$ . So now,  $b$  becomes 10 ( $30 - 20$ ).
  5.  $a = a - b$ : This subtracts the current value of  $b$  (which is 10) from the current value of  $a$  (which is still 30) and stores the result back into  $a$ . So now,  $a$  becomes 20 ( $30 - 10$ ).
- Therefore, after all the calculations,  $a$  will be 20 and  $b$  will be 10.

**61. Which one of the following is not essential for good questionnaires?**

- a) Logically arranged
- b) Avoiding personal questions
- c) Limiting number of questions
- d) Unlimited number of questions

**Ans : (d)**

Unlimited number of questions is not essential for good questionair.

**62. Both categorical and numerical data variables can be used for \_\_\_\_\_**

- a) Continuous variable
- b) Class intervals
- c) Distribution of frequency
- d) Frequency distribution table

**Ans : (d)**

It is used for both categorical and numerical data variable.

**63. Match the following:**

- |                             |                                      |
|-----------------------------|--------------------------------------|
| a) Mean                     | i. $= Q_3 - Q_1$                     |
| b) Absolute value           | ii. $= \text{AVERAGE}(\text{array})$ |
| c) IQR                      | iii. $= \text{ABS}(\text{cell})$     |
| a) a - i   b - ii   c - iii |                                      |
| b) a - ii   b - iii   c - i |                                      |
| c) a - iii   b - i   c - ii |                                      |
| d) a - i   b - iii   c - ii |                                      |

**Ans : (b)**

Mean formula in Excel = Average (Array)

Absolute value formula in excel = ABS (Cell)

IQR formula =  $Q_3 - Q_1$

**64. \_\_\_\_\_ type of chart is used to show the relationship between numerical and categorical variable**

- a) Plot
- b) Pie
- c) Bar
- d) Line

**Ans : (c)**

Bar chart is used to show the relationship between numerical and categorical variable.

**65. Who developed Python language?**

- a) Zim Den
- b) Guido van Rossum
- c) Niene Stom
- d) Wick van Rossum

**Ans : (b)**

Python was created by Guido van Rossum

**66. Which one of the following is *not* the benefit of data cleaning?**

- a) Removal of errors when multiple sources of data are at play
- b) Boosts results and revenue
- c) Helps with faster decision-making and more efficient business practices
- d) Consumes more time

**Ans : (d)**

Consuming more time is not the benefit of data cleaning.

**67. Is Python code complied or interpreted?**

- a) Python code is both complied and interpreted
- b) Python code is neither complied nor interpreted
- c) Python code is only complied
- d) Python code is only interpreted

**Ans : (a)**

Python code is first compiled into bytecode, which is an intermediate form that is not human-readable. This bytecode is then interpreted by the Python virtual machine (PVM) to execute the program.

**68. Which one of the following is *not* a type of interview?**

- a) Unstructured      b) Semi-structured
- c) Audio recorder    d) Structured

**Ans : (c)**

Audio recorder is not a type of interview.

**69. The time, in seconds, taken by 180 athletes to run a 110 m hurdle race are tabulated below:**

Class	Frequency
13.8 to 14	2
14 to 14.2	4
14.2 to 14.4	15
14.4 to 14.6	74
14.6 to 14.8	36
14.8 to 15	49

**The number of athletes who completed the race in less than 14.6 seconds is:**

- a) 19      b) 95      c) 131      d) 180

**Ans : (b)**

The number of athletes who completed the race in less than 14.6 seconds is  $2 + 4 + 15 + 74 = 95$

**70. The higher value of the range represents \_\_\_\_\_.**

- a) greater spread of the Data
- b) lesser spread of the Data
- c) equal to range of the Data
- d) average of the Data

**Ans : (a)**

If range of the data is more then spread of data is also more.

**71. The middle number in a given data set is called:**

- a) Mean                  b) Mode
- c) Frequency            d) Median

**Ans : (d)**

Median is the middle most value in arrange data.

**72. \_\_\_\_\_ is the example of qualitative Data.**

- a) Temperature        b) Ability of students
- c) Prices                d) Area

**Ans : (b)**

The data which cannot be numerically measurable is called qualitative data.

Ability of students are not numerically measurable.  
∴ It is a qualitative data

**73. Direct personal observation is a method of collection of:**

- a) Secondary Data    b) Primary Data
- c) Mixed Data        d) Unpublished Data

**Ans : (b)**

Direct personal observation is one type or method of collection of primary data.

**74. The in-built function to find the mean of a given data in Excel is:**

- a) =AVERAGE()        b) =MEAN()
- c) =MEDIAN()        d) =MODE()

**Ans : (a)**

Excel formula for mean is = Average()

**75. The formula for Relative Frequency is:**

a) Frequency × No. of observations

$$\text{b) } \frac{\text{No. of observations}}{\text{Frequency}}$$

$$\text{c) } \frac{\text{Frequency}}{\text{No. of observations}}$$

d) No. of observations + Frequency

**Ans : (c)**Relative frequency formula is  $R.f = f/n$ **76. In Python, "str" is a:**

- a) Numeric type      b) Binary type  
 c) Text type      d) Sequence type

**Ans : (c)**

- Numeric type refers to data that represents numbers, such as integers or floating-point numbers.
- Binary type stores data in binary format (0s and 1s).
- Text type (or string type) is used for textual data, like words or sentences.
- Sequence type refers to an ordered collection of items, such as lists or tuples.

**77. The results of Python program get displayed in \_\_\_\_\_.**

- a) IDLE 3.1.9 Window  
 b) IDLE shell 3.9.1 Window  
 c) IDLE shell 3.9.1 Window  
 d) ILDE shell 3.1.9 Window

**Ans : (c)**

IDLE (Integrated Development and Learning Environment) is an integrated development environment for Python.

**78. The process of Data cleaning is \_\_\_\_\_.**

- a) Removing virus    b) Deduplication  
 c) Survey            d) Google form

**Ans : (b)**

The process of data cleaning is removing duplicate data. ∴ It is called deduplication.

**79. Data collected for the first time is called:**

- a) Published Data    b) Mixed Data  
 c) Primary Data    d) Secondary Data

**Ans : (c)**

The data collected for the first time directly from field by investigator is called primary data.

**80. The Excel formula for standard deviation of a sample is:**

- a) STDEV.P          b) SDTEV.S  
 c) STDEV.S          d) SDTEV.P

**Ans : (c)**

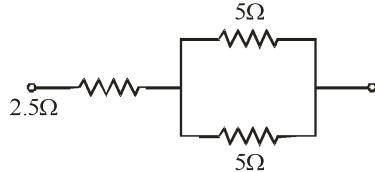
Excel formula for calculating standard deviation of a sample = STDEV.S

**81. CPR stands for \_\_\_\_\_**

- a) Cardio Permanent Respiration  
 b) Cardio Pulmonary Respiration  
 c) Cardio Pulmonary Resuscitation  
 d) Cardio Pulmonary Retrieval

**Ans : (c)**

Explanation : CPR stands for Cardio Pulmonary Resuscitation.

**82. The effective resistance of the circuit below is:**

- a)  $0.5\Omega$       b)  $5\Omega$   
 c)  $2.5\Omega$       d)  $7.5\Omega$

**Ans : (b)**

Explanation : From the given fig

Two  $5\Omega$  Resistors are connected in parallel

$$R_T = \frac{R_1 \times R_2}{R_1 + R_2} = \frac{5 \times 5}{5 + 5} = \frac{25}{10} = 2.5\Omega$$

This parallel combination is connected in series with  $2.5\Omega$  Resistor.

$$\begin{aligned} R_T &= R_1 + R_2 \\ &= 2.5 + 2.5 \\ R_T &= 5\Omega \end{aligned}$$

**83. The relationship between Voltage (V), Current (I) and Resistance (R) is:**

- a)  $I = VR$
- b)  $R = VI$
- c)  $V = IR$
- d)  $V = I^2 R$

**Ans : (c)**

Explanation : According to ohm's law statement,

$$V = I \cdot R$$

The ohm's law  $V = IR$  describes, the relation between voltages ( $V$ ), Current (I) and Resistance ( $R$ ).

**84. ELCB stands for:**

- a) Earth Line Circuit Breaker
- b) Electric Load Circuit Breaker
- c) Earth Leakage Circuit Breaker
- d) Electric Line Circuit Breaker

**Ans : (c)**

Explanation : ELCB stands for Earth leakage circuit breaker.

**85. Good fuse wire must have:**

- a) Low melting point
- b) High melting point
- c) High resistivity
- d) High melting point and high resistivity

**Ans : (a)**

Explanation : A good fuse wire must have low melting point.

**86. A 10 HP submersible pump set is used in a borewell for irrigation purpose. It normally uses \_\_\_\_\_ type of motor.**

- a) Single-phase induction motor
- b) Three-phase induction motor
- c) DC motor
- d) FHP motor

**Ans : (b)**

Explanation : A Three phase Induction motor is used in a borewell for irrigation purpose with a 10 HP submerise pump set.

**87. SMF in batteries stands for:**

- a) Sealed Moulded - Free
- b) Semiconductor Maintenance - Free
- c) Sealed Maintenance - Free
- d) Solar Maintenance - Free

**Ans : (c)**

Explanation : SMF batteries stands for Sealed Maintenance Free batteries.

**88. The typical use of LVDT is to sense \_\_\_\_\_.**

- a) Light intensity
- b) Humidity
- c) Pressure
- d) Temperature

**Ans : (c)**

Explanation : LVDT sensor is used to sense Displacement, Force and Pressure.

**89. A p-n junction diode is a \_\_\_\_\_**

- a) Bidirectional switch
- b) Unidirectional switch
- c) Bidirectional Controlled Switch
- d) Unidirectional Controlled Switch

**Ans : (b)**

Explanation : A P-N junction diode is a unidirectional switch. It allows the flow of current in only one direction i.e., From Anode to Cathode terminal.

**90. The purpose of C Filter in a power supply is to \_\_\_\_\_**

- a) Degrade regulation
- b) Reduce ripple
- c) Reduce gain
- d) Reduce the chance of an electric shock

**Ans : (b)**

Explanation : The purpose of C Filter in a power supply is used to decrease unwanted ripple voltage. In a rectifier the C filter is connected in parallel with the load.

**91. Lead acid cell is an example of \_\_\_\_\_**

- a) Secondary cell      b) Solar cell
- c) Primary cell      d) Fuel cell

**Ans : (a)**

Explanation : A secondary cell is a cell that is designed to be recharged with electricity and reused many times.

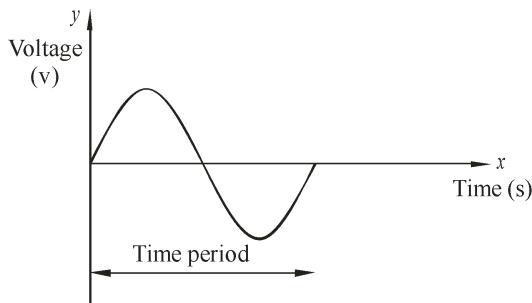
Ex : Lead-Acid, Nickel Cadmium, Lithium ion.

**92. Time taken by the alternating quantity to complete one cycle is called \_\_\_\_\_**

- a) Frequency      b) Time period
- c) Amplitude      d) Wavelength

**Ans : (b)**

Explanation : The time taken by an alternating quantity to complete one cycle is called Time period.

**93. What does "PLC" stand for in the context of Industrial Automation?**

- a) Programmable Logic Circuit
- b) Process Logic Controller
- c) Programmable Logic Controller
- d) Processor Logic Controller

**Ans : (c)**

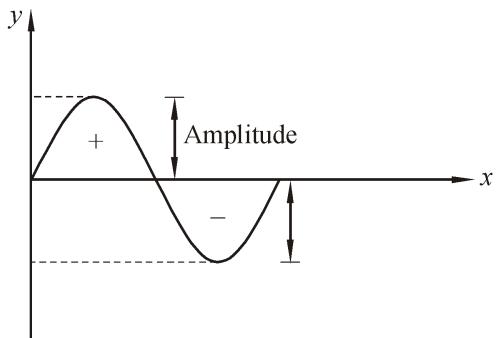
Explanation : PLC stands for Programmable Logic Controller which is used for Industrial Automation.

**94. Maximum value attained by the alternating quantity either in positive half-cycle or negative half-cycle is called \_\_\_\_\_.**

- a) Frequency      b) Altitude
- c) Amplitude      d) Wavelength

**Ans : (c)**

Explanation : Amplitude is the maximum value attained by the Alternating quantity either in positive (or) Negative Half cycle of the waveform

**95. Which of the following statement is correct?**

- a) In series circuit the current through each resistor is different.
- b) In parallel circuit the voltage across each resistor is same.
- c) In parallel circuit the equivalent resistance is sum of individual resistances
- d) In series circuit the reciprocal of equivalent resistance is sum of reciprocal of individual resistances.

**Ans : (b)**

Explanation : The voltage value should be same (or) equal (or) remains constant in the parallel circuit.

**96. The cell which cannot be recharged and reused is \_\_\_\_\_.**

- a) Secondary cell      b) Battery
- c) Primary cell      d) Simple cell

**Ans : (c)**

A primary cell is a cell that is designed to be used once and discarded and not recharged with electricity and can not reused like a secondary cell.

**97. Specific gravity of a fully charged lead acid battery will be in the range of \_\_\_\_\_**

- a) 1000 to 1210      b) 1100 to 1310
- c) 1150 to 1310      d) 1230 to 1300

**Ans : (d)**

Explanation : Specific gravity of a fully charged lead acid battery will be in the range of 1230 to 1280.

**98. The best sensor for sensing vibration is \_\_\_\_\_**

- a) Thermistor
- b) Thermocouple
- c) Piezoelectric crystal
- d) Hygrometer

**Ans : (c)**

The piezo electric crystal sensor is used for sensing vibration of an object.

**99. During charging of batteries**

- a) Chemical energy is converted to Mechanical energy
- b) Mechanical energy is converted to Chemical energy
- c) Electrical energy is converted to Chemical energy
- d) Chemical energy is converted to Electrical energy.

**Ans : (c)**

Explanation : During charging of a batteries, Electrical energy is converted to chemical energy.

**100. When an electric stove is connected across 230 volts, 50 Hz AC supply for the duration of one hour and takes a current of 10 amperes, the energy consumed is:**

- a) 230 units
- b) 2.3 units
- c) 23 units
- d) 0.23 units

**Ans : (b)**

Explanation :

$$V = 230V$$

$$I = 10A$$

$$t = 1 \text{ hr}$$

$$\begin{aligned} \text{Energy} &= V \times I \times t \\ &= 230 \times 10 \times 1 \end{aligned}$$

$$= \frac{2300}{1000} [\because \text{In terms of units Energy } \div 1000]$$

$$\text{Energy} = 2.3 \text{ units}$$

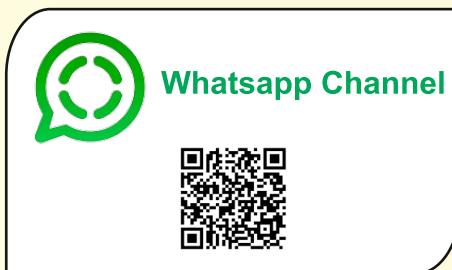
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Below 200 Ranks : 30 Students  
Below 500 Ranks : 69 Students  
Below 1000 Ranks : 121 Students  
Below 1500 Ranks : 173 Students  
Below 2000 Ranks : 205 Students

### 2023 Rankers

#### DCET State 1<sup>st</sup> Rank

Below 10 Ranks : 4 Students  
Below 100 Ranks : 23 Students  
Below 200 Ranks : 41 Students  
Below 500 Ranks : 98 Students  
Below 1000 Ranks : 173 Students  
Below 1500 Ranks : 234 Students  
Below 2000 Ranks : 289 Students

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#### DCET State 3<sup>rd</sup> Rank

Below 10 Ranks : 2 Students  
Below 100 Ranks : 32 Students  
Below 200 Ranks : 46 Students  
Below 500 Ranks : 99 Students  
Below 1000 Ranks : 180 Students  
Below 1500 Ranks : 257 Students  
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SP Ramanaganara  
Rank : 10



Bindu S  
PVP Bangalore  
Rank : 19



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GPT Kalburgi  
Rank : 25



Vivitha Sequeira  
MEI Bengaluru  
Rank : 28



Zhenkar Gowda K P  
MEI Bengaluru  
Rank : 31



Somashekara G  
SJP Bengaluru  
Rank : 38



Punith Giri B T  
GPT Hosadurga  
Rank : 50



Gokulnath S  
MEI Bengaluru  
Rank : 54



Hemalatha S  
GPT Chitradurga  
Rank : 62



Harshith  
Acharya Polytechnic  
Rank : 64



Vaibhav D  
GPT Hiriyur  
Rank : 70



Balraj S A  
GPT Chennappatna  
Rank : 75



Siddu R  
BVVSP Hosapete  
Rank : 80



Harshavardhan B  
SJPNP Nidasoshi  
Rank : 83



Shashank  
VISSJ Shivamogga  
Rank : 90 (G55)



B Girish  
SGP Bellary  
Rank : 90



Chandana B  
MEI Bengaluru  
Rank : 98



Karthik G  
MEI Bengaluru  
Rank : 107



Om Shivarjun  
SSPT Tumakur  
Rank : 111



Chandrashekhar M  
MEI Bangalore  
Rank : 115



Shivakumar S  
SJP Bangalore  
Rank : 117



Yashwanth P  
SJP Bengaluru  
Rank : 119



Amol Girigowda Patil  
VMSRKIT Nipani  
Rank : 144



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SJBGS Belluru Cross  
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GPTI Bengaluru  
Rank : 158



Hemavathi V M  
PVP Bangalore  
Rank : 160



Kalpittha R B  
SVP Kumpta  
Rank : 161



Jeevan G M  
GPT Bellary  
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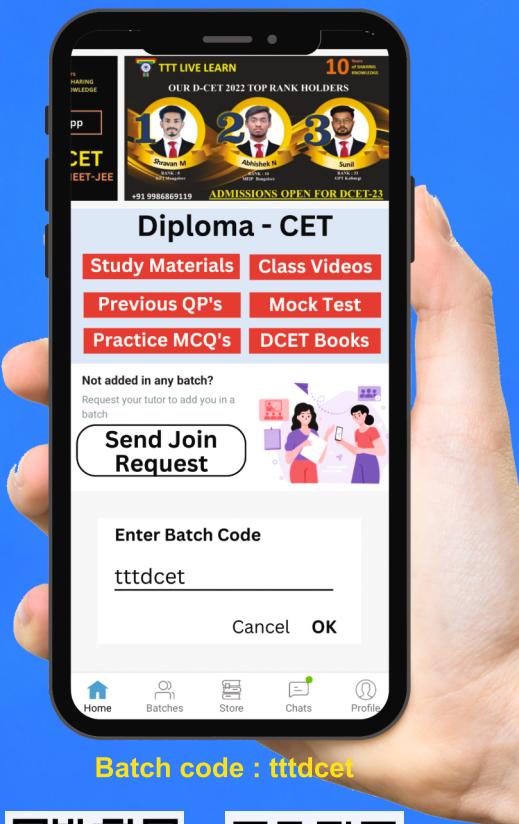
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