

Roll No.

Booklet Code **E**

Name :

Date : 16<sup>th</sup> December 2020

**ENGINEERING**



**TALENT HUNT EXAM**

**ANTHE**  
**—2020—**

**(Class XII Studying moving to XII Passed)**

**Physics, Chemistry & Mathematics**

### INSTRUCTIONS FOR CANDIDATE

1. Duration of Test is 1 hr.
2. The Test booklet consists of **35** questions. The maximum marks are **90**. There is **no negative marking** for wrong answer.
3. Pattern of the questions are as under:
  - (i) This question paper consists of three parts i.e., Physics, Chemistry and Mathematics, each having **five sections**.
  - (ii) **Section-I**: This section contains **16** multiple choice questions, which have **only one** correct answer. Each question carries **+2 marks** for correct answer.
  - (iii) **Section-II**: This section contains **7** multiple choice questions, in which **more than one** answer may be correct. Each question carries **+4 marks** for correct answer.
  - (iv) **Section-III**: This section contains **6** multiple choice questions based on paragraphs, which have **only one** correct answer. Each question carries **+2 marks** for correct answer.
  - (v) **Section-IV**: This section contains **3** multiple choice questions based on assertion-reason type, which have **only one** correct answer. Each question carries **+2 marks** for correct answer.
  - (vi) **Section-V**: This section contains **3** matrix match type questions. Each question has two matching Columns. Column-I has four entries (A, B, C, D) and Column-II has four entries (P, Q, R, S). Each entry in Column-I may match with one or more entries in Column-II. Each question carries **+4 marks** for correct answer.



**Aakash**

**Medical | IIT-JEE | Foundations**

(Divisions of Aakash Educational Services Limited)



# Aakash National Talent Hunt Exam 2020

(For Class XII Studying moving to XII Passed)

Time : 1 Hour

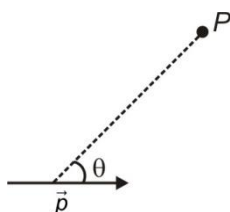
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## PHYSICS

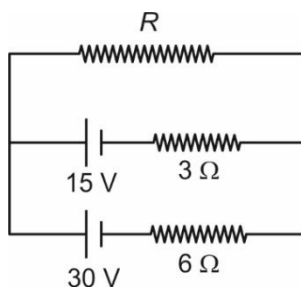
### SECTION-I : SINGLE ANSWER TYPE

This section contains 5 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

1. Value of angle  $\theta$  for which electric field at point  $P$  is perpendicular to dipole moment  $\vec{p}$  is



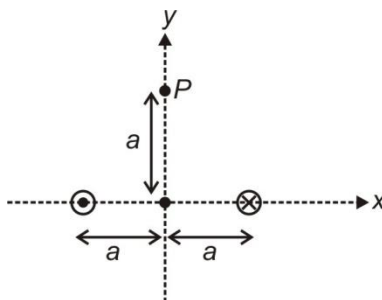
- (1)  $\tan^{-1}(2)$  (2)  $\tan^{-1}\left(\frac{1}{\sqrt{2}}\right)$   
 (3)  $\tan^{-1}(\sqrt{2})$  (4)  $\tan^{-1}(1)$
2. If value of resistor  $R$  is adjusted in such a way that power dissipated to resistor  $R$  is maximum equal to  $P_0$ , then



- (1)  $R = 2 \Omega, P_0 = 100 \text{ W}$  (2)  $R = 2 \Omega, P_0 = 50 \text{ W}$   
 (3)  $R = 3 \Omega, P_0 = 100 \text{ W}$  (4)  $R = 6 \Omega, P_0 = 50 \text{ W}$

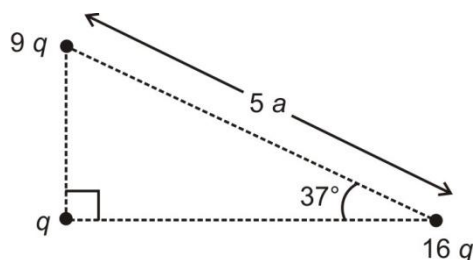
Space for Rough Work

3. Current  $I$  flows along the two long wires as shown in figure. Magnetic field at point  $P$  is



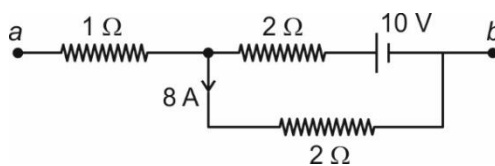
- (1)  $\frac{\mu_0 I}{4\pi a}$  (2)  $\frac{\mu_0 I}{2\pi a}$   
 (3)  $\frac{\mu_0 I}{2\sqrt{2}\pi a}$  (4)  $\frac{\mu_0 I}{\sqrt{2}\pi a}$

4. Three point charges are placed on the vertices of a right angled triangle as shown. Force acting on the point charge  $q$  is



- (1)  $\frac{q^2}{2\pi\epsilon_0 a^2}$  (2)  $\frac{q^2}{4\sqrt{2}\pi\epsilon_0 a^2}$   
 (3)  $\frac{q^2}{4\pi\epsilon_0 a^2}$  (4)  $\frac{q^2}{2\sqrt{2}\pi\epsilon_0 a^2}$

5. For the circuit shown, potential difference between  $a$  and  $b$  is



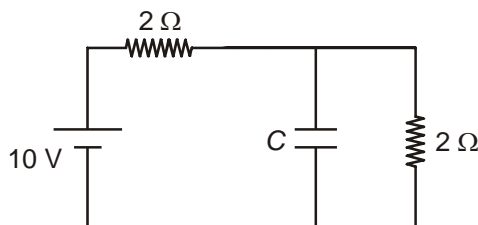
- (1) 35 V (2) 18 V  
 (3) 27 V (4) 25 V

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**SECTION-II : MORE THAN ONE ANSWER TYPE**

This section contains 2 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) out of which **MORE THAN ONE** answer may be correct.

6. For the circuit shown, current through battery at an instant is 3 A, then at that instant



- (1) Potential across capacitor is 3 V  
 (2) Potential across capacitor is 4 V  
 (3) Current through capacitor at that instant is 1 A  
 (4) Current through capacitor at that instant is 2 A
7. Current ( $I$ ) through AC circuit varies with time  $t$  as  $I = \frac{I_0 t^2}{T^2}$ , where  $I_0$  is the peak value of current and  $T$  is time duration of the cycle. For the interval  $0 \leq t \leq T$ , choose the correct option(s).

- (1) Average value of current is  $\frac{I_0}{2}$                       (2) Average value of current is  $\frac{I_0}{3}$   
 (3) RMS value of current is  $\frac{I_0}{\sqrt{5}}$                       (4) RMS value of current is  $\frac{I_0}{\sqrt{3}}$

**SECTION-III : PARAGRAPH TYPE**

This section contains a paragraph. Based upon this paragraph, 2 multiple choice questions have to be answered. Each question has 4 choices (1), (2), (3) and (4), out of which **ONLY ONE** is correct.

**Paragraph for Q. Nos. 8 & 9**

Volume charge density in a cylindrical region of radius  $R$  varies with axial distance  $r$  as  $\rho = \frac{\rho_0 r}{R}$  where  $\rho_0$  is positive constant.

**Space for Rough Work**

8. Total charge contained in a cylinder of unit length is

(1)  $2\pi\rho_0 R^2$

(2)  $\frac{\pi\rho_0 R^2}{3}$

(3)  $\frac{3\pi\rho_0 R^2}{2}$

(4)  $\frac{2\pi\rho_0 R^2}{3}$

9. Electric field at a distance  $2R$  from the axis of long cylinder is

(1)  $\frac{\rho_0 R}{\epsilon_0}$

(2)  $\frac{\rho_0 R}{2\epsilon_0}$

(3)  $\frac{2\rho_0 R}{3\epsilon_0}$

(4)  $\frac{\rho_0 R}{6\epsilon_0}$

#### SECTION-IV : ASSERTION-REASON TYPE

This section contains 1 Assertion-Reason type question, which has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

10. **A** : Acceleration of charge particle in non-uniform electric field does not depend on velocity of particle.

**R** : Electric force acting on the charge particle will be dependent on instantaneous velocity.

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A)  
 (2) Both (A) and (R) are true but (R) is not the correct explanation of (A)  
 (3) (A) is true but (R) is false  
 (4) (A) is false but (R) is true

#### SECTION-V : MATRIX MATCH TYPE

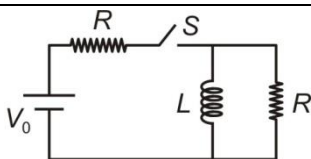
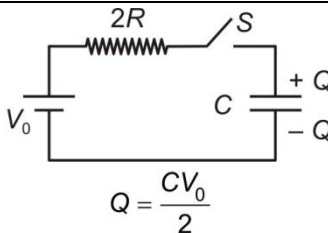
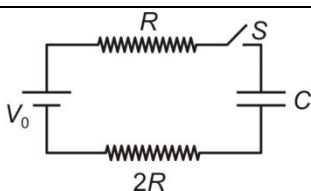
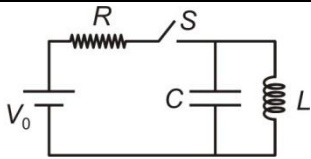
This section contains 1 Matrix Match type question, which has 2 Columns (Column-I and Column-II). Column-I has four entries (A), (B), (C) and (D), Column-II has four entries (P), (Q), (R) and (S). Match the entries in Column-I with the entries in Column-II. Each entry in Column-I may match with one or more entries in Column-II.

**Space for Rough Work**

For each entry in Column-I, tick the boxes of all the matching entries in Column-II. For example, if entry (A) in Column-I matches with entries (P) & (S) in Column-II, then tick the boxes (P) & (S). Similarly, tick the boxes for entries (B), (C) and (D).

	P	Q	R	S
A.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

11. For the circuit shown in Column-I, switch  $S$  is closed at time  $t = 0$ . Column-II gives the value of current through the circuit immediately after closing the switch.

	Column-I		Column-II
(A)		(P)	$\frac{V_0}{4R}$
(B)	 $Q = \frac{CV_0}{2}$	(Q)	$\frac{V_0}{R}$
(C)		(R)	$\frac{V_0}{2R}$
(D)		(S)	$\frac{V_0}{3R}$

Space for Rough Work

**CHEMISTRY****SECTION-I : SINGLE ANSWER TYPE**

This section contains 5 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

12. Consider a body centered cubic (bcc) arrangement of atoms. Let  $d_e$ ,  $d_{fd}$  and  $d_{bd}$  be the distance between successive atoms located along the edge, the face-diagonal and the body-diagonal respectively in a unit cell. Their order is given by
- (1)  $d_{bd} > d_{fd} > d_e$  (2)  $d_{fd} > d_{bd} > d_e$   
(3)  $d_{fd} > d_e > d_{bd}$  (4)  $d_{bd} > d_e > d_{fd}$
13. The  $K_f$  and  $K_b$  values of a solvent (S) are  $5.0 \text{ K kg mol}^{-1}$  and  $16.0 \text{ K kg mol}^{-1}$  respectively. The boiling point of the solvent is  $82.2^\circ\text{C}$  and its freezing point is  $-2.5^\circ\text{C}$ . What is the boiling point of a solution of a non-volatile solute (X) in (S) if it freezes at  $-3.25^\circ\text{C}$ ?
- (1)  $84.6^\circ\text{C}$  (2)  $86.1^\circ\text{C}$   
(3)  $87.5^\circ\text{C}$  (4)  $88.8^\circ\text{C}$
14. What are the products formed when  $\text{N}_2\text{O}_5$  reacts with  $\text{NaCl}$ ?
- (1)  $\text{NOCl}$  and  $\text{NaNO}_2$  (2)  $\text{Na}_2\text{O}$  and  $\text{NCl}_3$   
(3)  $\text{NO}_2$  and  $\text{NaClO}_3$  (4)  $\text{NO}_2\text{Cl}$  and  $\text{NaNO}_3$
15. An aqueous solution of a salt (X) gives green precipitate with  $\text{KI}$  solution which dissolves in excess of  $\text{KI}$  along with black residue. The clear colourless filtrate on treatment with Mohr salt in presence of alkali forms brown precipitate. The salt (X) is
- (1) Epsom salt (2) Calomel  
(3) Blue vitriol (4) Glauber's salt
16. The rate of a chemical reaction is found to be  $0.92 \text{ mol L}^{-1} \text{ min}^{-1}$  at 15 min and  $0.23 \text{ mol L}^{-1} \text{ min}^{-1}$  at 45 min from the start of the reaction. What is the order of the reaction if half-life of the reaction is 15 min?
- (1) Zero order (2) Half order  
(3) One and a half order (4) First order

Space for Rough Work



**SECTION-II : MORE THAN ONE ANSWER TYPE**

This section contains 2 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) out of which **MORE THAN ONE** answer may be correct.

17. Which of the following statement(s) is/are true about AgI sol prepared by peptization of AgI with  $\text{AgNO}_3$ ?

- (1) In electrophoresis, the dispersed phase will move towards cathode
- (2)  $\text{AlCl}_3$  is more effective than  $\text{Na}_3\text{PO}_4$  for bringing about coagulation of sol
- (3) Charge of diffused layer is -ve in this case
- (4)  $\text{Na}_3\text{PO}_4$  is more effective than  $\text{CaCl}_2$  for bringing about coagulation of sol

18. Identify the compounds/complexes which are expected to be coloured.

- (1) CdS
- (2)  $\text{K}_3[\text{Cu}(\text{CN})_4]$
- (3)  $[\text{Cr}(\text{NH}_3)_6]\text{Cl}_3$
- (4)  $\text{Fe}_4[\text{Fe}(\text{CN})_6]_3$

**SECTION-III : PARAGRAPH TYPE**

This section contains a paragraph. Based upon this paragraph, 2 multiple choice questions have to be answered. Each question has 4 choices (1), (2), (3) and (4), out of which **ONLY ONE** is correct.

**Paragraph for Q. Nos. 19 & 20**

An aqueous solution of a compound (A) when treated with  $\text{H}_2\text{S}$  in presence of  $\text{NH}_4\text{OH}$  gives a black coloured compound (B) which is not soluble in dil HCl. (B) on treatment with aqua regia gives back (A). Addition of KCN to (A) gives brown ppt. which dissolves in excess of the reagent to give a compound (C) which changes to (D) when its aqueous solution is boiled. The solution of (A) is treated with  $\text{NaHCO}_3$  and then with bromine water when a green coloured compound (E) is formed.

19. Compounds (B) and (C) are respectively

- (1) NiS,  $\text{K}_2[\text{Ni}(\text{CN})_4]$
- (2) CoS,  $\text{K}_4[\text{Co}(\text{CN})_6]$
- (3)  $\text{Cu}_2\text{S}$ ,  $\text{Cu}_2[\text{Fe}(\text{CN})_6]$
- (4) PbS,  $\text{Pb}(\text{CN})_2$

20. Compound (E) is

- (1)  $\text{Ni}(\text{HCO}_3)_2$
- (2)  $\text{CuCO}_3$
- (3)  $\text{Na}_3[\text{Co}(\text{CO}_3)_3]$
- (4)  $\text{PbO}_2$

**Space for Rough Work**

**SECTION-IV : ASSERTION & REASON TYPE**

This section contains 1 Assertion-Reason type question, which has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

21. **A** : The rate of reaction normally increases by a factor of 2 or 3 for every 10°C rise in temperature.

**R** : Increase in temperature increases the number of collisions.

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (3) (A) is true but (R) is false
- (4) (A) is false but (R) is true

**SECTION-V : MATRIX MATCH TYPE**

This section contains 1 Matrix Match type question, which has 2 Columns (Column-I and Column-II). Column-I has four entries (A), (B), (C) and (D), Column-II has four entries (P), (Q), (R) and (S). Match the entries in Column-I with the entries in Column-II. Each entry in Column-I may match with one or more entries in Column-II.

For each entry in Column-I, tick the boxes of all the matching entries in Column-II. For example, if entry (A) in Column-I matches with entries (P) & (S) in Column-II, then tick the boxes (P) & (S). Similarly, tick the boxes for entries (B), (C) and (D).

	P	Q	R	S
A.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

22. Match the complexes given in Column-I with the type of isomerism shown by them in Column-II.

	Column-I		Column-II
(A)	$[\text{Pd}(\text{NH}_3)_2(\text{SCN})_2]$	(P)	Ionisation isomerism
(B)	$[\text{Co}(\text{en})_2\text{Cl}_2]\text{Br}$	(Q)	Linkage isomerism
(C)	$[\text{Cr}(\text{Py})_2(\text{NH}_3)_2(\text{NO}_2)_2]\text{Cl}$	(R)	Geometrical isomerism
(D)	$[\text{Zn}(\text{gly})_2]$	(S)	Optical isomerism

**Space for Rough Work**

**MATHEMATICS****SECTION-I : SINGLE ANSWER TYPE**

This section contains 6 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

23. Let  $\int \frac{\sec^2 x}{\operatorname{cosec}^2 x} dx = f(x)$ , where  $f(0) = 0$  then  $f(\pi)$  equals

(1) 0

(2)  $\pi$

(3)  $-\pi$

(4)  $2\pi$

24. The minimum value of  $f(x) = \sin^{-1} \sqrt{x^2 + x + 1}$  is

(1)  $\frac{\pi}{6}$

(2)  $-\frac{\pi}{6}$

(3)  $\frac{\pi}{3}$

(4)  $-\frac{\pi}{3}$

25. Let  $f(x) = \begin{cases} \frac{2 - \sqrt{3} \cos x - \sin x}{(6x - \pi)^2}, & x \neq \frac{\pi}{6} \\ \lambda, & x = \frac{\pi}{6} \end{cases}$ . The value of  $\lambda$  for which  $f(x)$  is continuous at  $x = \frac{\pi}{6}$  is

(1)  $\frac{1}{9}$

(2)  $\frac{1}{18}$

(3)  $\frac{1}{27}$

(4)  $\frac{1}{36}$

26. If  $x^4 y^7 = (x + y)^{11}$  then  $\frac{dy}{dx}$  equals

(1)  $x$

(2)  $y$

(3)  $\frac{y}{x}$

(4)  $\frac{x}{y}$

Space for Rough Work

27. Let  $f: R - \{0\} \rightarrow R$  be defined as  $f(x) = \log |x|$ . Then  $f(x)$  is
- (1) One-one and onto (2) One-one and into  
 (3) Many-one and onto (4) Many-one and into
28. If  $A = \begin{bmatrix} \alpha & 3 \\ 1 & -1 \end{bmatrix}$  and  $B = \begin{bmatrix} 7 & 3 \\ 1 & 4 \end{bmatrix}$ , then the value of  $\alpha$  for which  $A^2 = B$  is
- (1) 1 (2) 2  
 (3) 3 (4) 4

### SECTION-II : MORE THAN ONE ANSWER TYPE

This section contains 3 multiple choice questions. Each question has 4 choices (1), (2), (3) and (4) out of which **MORE THAN ONE** answer may be correct.

29. Let the area bounded by the curve  $y = x^3 - x$  and x-axis is  $A_1$  sq. units in IV quadrant and  $A_2$  sq. units in II quadrant then
- (1)  $A_1 = A_2$  (2)  $A_1 > A_2$   
 (3)  $A_1 < A_2$  (4)  $A_1 + A_2 = \frac{1}{2}$
30. Let  $f(x) = \begin{cases} 1 + \ln x & , x > 1 \\ 2x - x^2 & , x \leq 1 \end{cases}$ . Which of the following is/are FALSE about  $f(x)$ ?
- (1)  $f(x)$  is increasing for  $x \in R$   
 (2)  $f(x)$  is decreasing for  $x \in R$   
 (3)  $f(x)$  increases if  $x < 1$   
 (4)  $f(x)$  decreases if  $x > 1$
31. Let  $f(x) = \sin^{-1} x + \cos^{-1} 2x + \tan^{-1} 3x + \sec^{-1} 2x$ . Which of the following is/are true about  $f(x)$ ?
- (1) Number of integers in domain of  $f(x)$  is zero  
 (2) Number of integers in domain of  $f(x)$  is 1  
 (3) Range of  $f(x)$  is a pair set  
 (4) Range of  $f(x)$  is a singleton set

Space for Rough Work

**SECTION-III : PARAGRAPH TYPE**

This section contains a paragraph. Based upon this paragraph, 2 multiple choice questions have to be answered. Each question has 4 choices (1), (2), (3) and (4), out of which **ONLY ONE** is correct.

**Paragraph for Q. Nos. 32 & 33**

Let  $f(x)$  be a polynomial function of degree 6, which satisfies  $\lim_{x \rightarrow 0} \left(1 + \frac{f(x)}{x^3}\right)^{1/x} = e^2$  and the local maximum at  $x = 1$  and local minimum at  $x = 0$  and  $x = 2$ .

32. The coefficient of  $x^6$  in  $f(x)$  is

- |                     |                   |
|---------------------|-------------------|
| (1) 0               | (2) 2             |
| (3) $-\frac{12}{5}$ | (4) $\frac{2}{3}$ |

33. The coefficient of  $x^3$  in  $f(x)$  is

- |                     |                   |
|---------------------|-------------------|
| (1) 0               | (2) 2             |
| (3) $-\frac{12}{5}$ | (4) $\frac{2}{3}$ |

**SECTION-IV : ASSERTION-REASON TYPE**

This section contains 1 Assertion-Reason type question, which has 4 choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

34. **A** : The value of  $\sin^{-1}\left(\sin \frac{2\pi}{3}\right)$  is  $\frac{2\pi}{3}$ .

**R** : The value of  $\sin\left(\sin^{-1} \frac{1}{2}\right)$  is  $\frac{1}{2}$ .

- (1) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (2) Both (A) and (R) are true but (R) is not the correct explanation of (A)
- (3) (A) is true but (R) is false
- (4) (A) is false but (R) is true

**Space for Rough Work**

**SECTION-V : MATRIX MATCH TYPE**

This section contains 1 Matrix Match type question, which has 2 Columns (Column-I and Column-II). Column-I has four entries (A), (B), (C) and (D), Column-II has four entries (P), (Q), (R) and (S). Match the entries in Column-I with the entries in Column-II. Each entry in Column-I may match with one or more entries in Column-II.

For each entry in Column-I, tick the boxes of all the matching entries in Column-II. For example, if entry (A) in Column-I matches with entries (P) & (S) in Column-II, then tick the boxes (P) & (S). Similarly, tick the boxes for entries (B), (C) and (D).

	P	Q	R	S
A.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

35. Let matrix  $A = \begin{bmatrix} 1 & 2 & 1 \\ 2 & 1 & 1 \\ 0 & 1 & 1 \end{bmatrix}$ . Then match the entries of Column-I with appropriate entries of Column-II.

	Column-I		Column-II
(A)	$\det(A)$ equals	(P)	-2
(B)	The element(s) of principal diagonal of $\text{adj}(A)$ is/are	(Q)	-1
(C)	The element(s) of 1 <sup>st</sup> column of $A^{-1}$ is/are	(R)	1
(D)	Cofactor of 2 <sup>nd</sup> row and 2 <sup>nd</sup> column element of $A$ is	(S)	2

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# Aakash - India's Trusted Name in Coaching

## Our Result in Medical & Engineering Entrance Exams 2020

**84230** in NEET-UG 2020  
69759 Classroom + 14471 Distance & Digital

**7581** in JEE (Main) 2020  
6536 Classroom + 1045 Distance & Digital

**1700** in JEE (Advanced) 2020  
1560 Classroom + 140 Distance & Digital

## Our Result in Olympiads / Scholarship Exams

**1598**

1556 Classroom + 42 Distance & Digital

in PRMO 2019

**115**

111 Classroom + 4 Distance & Digital

in RMO 2019

**949**

832 Classroom + 117 Distance & Digital

in NTSE (Stage - I) 2019-20

**366**

317 Classroom + 49 Distance & Digital

in NTSE (Stage-II) 2019

**591**

515 Classroom + 76 Distance & Digital

in KVPY Aptitude Test 2019

**450**

385 Classroom + 65 Distance & Digital

in KVPY Fellowship Award 2019-20

**767**

701 Classroom + 66 Distance & Digital

in NSEs 2019

**481**

466 Classroom + 15 Distance & Digital

in IMO (Level-I) 2018-19

**800**

728 Classroom + 72 Distance & Digital

in NSO (Level-I) 2019-20

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