

Dear Aspirant

Analyze Your today



It Will help you to

Improve Future Attempts



Some Observations:

- 1) Most of the questions were made easy , few were moderate & very few questions were made tough
- 2) Tough questions may be present anywhere in the paper, means they maybe in the starting or in the middle etc.
- 3) One question can break confidence and hence has potential to ruin the entire paper.
- 4) When we are tense, we tend to commit more mistakes.

Strategy To Be Followed:

- 1) Paper should be done in two rounds.
- 2) In fist round we have to try to ensure that very easy and less time taking questions are solved without any calculation mistake.
- 3) Order of subject should be as per your own convenience but chemistry or bio should attempt first as they contains many questions which can be answered without calculations & It will boost confidence.
- 4) During first round one should immediately leave tough or lengthy questions (to ensure that easier ones are not left unattempted).
- 5) Once first round is complete then we can try lengthy questions.
- 6) If a seemingly easy question is taking too much time then leave it immediately.

All The Best For Your Next Attempt



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Test Name: 11th C JEE Main [27.06.2021]

 $Total\ Questions: 75$ Difficulty Level: Medium Total Marks: 300.00 Test Type : Paid Duration: 180.00 mins

- Q.1 Covert 45° to radians
 - A. 4/p rad
 - B. p/4 rad
 - C. p/6 rad
 - D. 6/p rad

Answer: B,

Solution : Solution is not available

- Q.2 Evaluate sin 120°

 - B. ½
 - C. 1
 - D. 0

Answer: A,

Solution: Solution is not available

- Function f(x) is defined as $f(x) = x^2 + 3$, Find f(0)Q.3
 - A. 0
 - B. 1
 - C. 2
 - D. 3

Answer: D,

- Q.4 The volume of a ball of radius 3m is?
 - A. 36 p meter³
 - B. 32 p meter³
 - C. 38 p meter³



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D. 46 p meter³

Answer: A,

Solution: Solution is not available

- Q.5 $\frac{d8}{dx} = ?$
 - A. 0
 - B. 1
 - C. 8
 - D. 16

Answer: A,

Solution : Solution is not available

- Q.6 <u>d√x</u> dx
 - A. ¹√x
 - B. $\frac{\sqrt{1}}{2\sqrt{x}}$
 - C. 2√x
 - D. $\frac{3}{2\sqrt{x}}$

Answer: B,

Solution: Solution is not available

- Q.7 <u>d3x</u>?
 - A. 3x
 - B. $6x^2$
 - C. $\frac{3}{2}x^{\frac{3}{2}}$
 - D. 6x

Answer: D,

Solution : Solution is not available

Q.8 Find $\frac{dy}{dx}$ if $y = x^4 + 12x$



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A. 4x + 12

B. 4x

C. $4x^3 + 12$

D. $4x^3$

Answer: C,

Solution: Solution is not available

Q.9 $\frac{d(sinx)}{dx}$

A. cosx

B. sinx

C. -cosx

D. -sinx

Answer: A,

Solution: Solution is not available

Q.10 Find the derivation of $y = \sqrt{x^2 + 1}$

A.
$$\frac{1}{\sqrt{x^2+1}}$$

B.
$$\frac{1}{\sqrt{x^2}}$$

C.
$$\frac{x}{2\sqrt{x^2+1}}$$

D.
$$\frac{2\sqrt{x}}{\sqrt{x^2+1}}$$

Answer: D,

Solution : Solution is not available

Q.11 sin 300

A. $\frac{1}{2}$

B. $\frac{\sqrt{3}}{2}$

C. 1

D. $-\frac{\sqrt{3}}{2}$

Answer: D,



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Solution: Solution is not available

Q.12 sin 210

- A. 1

- B. $\frac{\sqrt{3}}{2}$ C. 1
 D. $-\frac{\sqrt{3}}{2}$

Answer: A,

Solution: Solution is not available

Q.13 cos (225)

- A. _ 1
- В.
- C. 1
- D. 1

Answer: A,

Solution: Solution is not available

Q.14 cos (-45)

- В.
- C. 1
- D. 1

Answer: B,

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Q.15 ||x+1|| = 3, Then the value of x will be?

A. 2 & -4

B. 2 & 4

C. -2 & -4

D. -2 & 4

Answer: A,

Solution: Solution is not available

Q.16 log√12

log12 = ?

A. $\frac{1}{2}$

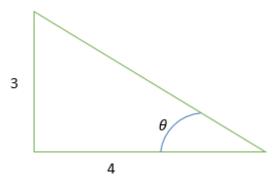
B. 8C. 12

D. 1

Answer: A,

Solution : Solution is not available

Q.17 Then the value of Sin^{θ} will be?



A. 3/4

B. 3/5

C. 4/5

D. 5/3

Answer: B,

Solution: Solution is not available

Q.18 If 4 buffalo gives 12 litres of milk, Then 3 buffalo gives how much milk, (assume all buffalos are uniform)

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	A. 4L B. 10L C. 9L D. 6L	
		Answer: C,
	Solution : Solution is not available	
Q.19	The shortest distance of the point P (2, 3) from the x-axis is A. 2 B. 3 C. 1 D. 5	
		Answer: B,
	Solution : Solution is not available	
Q.20	Equation of the line that passes through the point (1 , 1) is ? A. $x+y=2$ B. $2x+2y=4$ C. $X=1$ D. All of the above	
		Answer : D,
	Solution: Solution is not available	
Q.21	Evaluate cos 5760°	
		Answer: 1,
	Solution : Solution is not available	
Q.22	$x^2+1-2x=0$, Then the value of x will be ?	
		Answer: 1,
	Solution : Solution is not available	
Q.23	Distance between the points (1,1) & (5,4) will be ?	
		Answer: 5,



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Solution: Solution is not available Q.24 sin (-90) **Answer:** -1, **Solution:** Solution is not available Q.25 $y = 9 - (x - 3)^2$ Maximum value of Y will be? Answer: 9, **Solution:** Solution is not available Q.26 is used in treatment of cancer. (A) Paracctamol (B) Taxol (C) Aspirine (D) Peniciline A. A, В. В, C. C, D. D, **Answer:** B, **Solution:** Solution is not available Q.27 Which one is not element? (C) Silica (A) Diamond (B) Graphite (D) Oxygen

A. A,

В. В,

C. C,

D. D,

Answer: C,

Solution: Solution is not available

Q.28 H₂C₂O₄ · 2H₂O its molecular mass

(A) 90 u

(B) 126 u

(C) 124 u

(D) 136 u

A. A.

В. В,

C. C,

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(A) combustion

D. D,

Answer: B, **Solution**: Solution is not available Q.29 % of H in H₂O is (A) 11.11 (B) 88.89 (C) 2 (D) 20 A. A, В. В, C. C, D. D, Answer: A, **Solution**: Solution is not available 0.30 The law of multiple proportions is illustrated by-A. Carbon monoxide and carbon dioxide B. Potassium bromide and potassium chloride C. Water and heavy water D. Calcium hydroxide and barium hydroxide. Answer: A, **Solution**: Solution is not available Q.31 % of H in $CH_3COOH =$ (A) 40 (B) 6.66 (C) 10 (D) 15 A. A, В. В. C. C, D. D, **Answer**: B, **Solution:** Solution is not available

Q.32 The law of conservation of mass is given by study of which reaction

(C) endothermic

(B) fusion

(D) vaporization

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	A. A, B. B, C. C, D. D,			
				Answer: A,
	Solution : Solution is not	available		
Q.33	The atomic mass is with	Carl Valle	•	
	(A) C ¹² A. A, B. B, C. C,	(B) C ¹³	(C) C ¹⁴	(D) C ¹⁶
	D. D,			Answer : C,
	Solution : Solution is not	available		
Q.34	The purpose of chemistry can be understood and described by (A) fundamental particles (B) atoms			
	(C) molecules A. A, B. B, C. C, D. D,		(D) all o	of the above
				Answer : D,
	Solution : Solution is not	available		
Q.35	Which is not an elemen	nt ?		
	(A) Carbon A. A, B. B, C. C, D. D,	(B) Sodium	(C) Oxygen	(D) NaCl
	•			Answer : D,



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Q.36	Chemistry is a science of (A) composition (B) struck A. A, B. B, C. C, D. D,		(C) properties	(D) all of the above
				Answer : D,
	Solution : Solution is not available	able		
Q.37	Chemistry is not useful in	1		
	(A) digestion of food (C) gravitational force A. A, B. B, C. C, D. D,			oning of brain tion of computer
				Answer : C
	Solution : Solution is not availa	able		,
Q.38	Which compounds are included	l in chemistry?		
		nisynthetic	(C) Synthetic	(D) All of the above
				Answer : D,
	Solution : Solution is not availa	able		
Q.39	used in refrigerator i	is hazardous to	ozone layer.	
	(A) CFC (B) A. A,	CMC	(C) CNC	(D) FCC

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Solution : Solution is not available

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B. B, C. C, D. D,		
	Answe	r : A,
Solution : Solution is not available		
Nowadays in refrigerator is used which is less h	azardous.	
(A) CFC (B) HFC (C) C A. A, B. B, C. C, D. D,	NG (D) CN	С
	Answe	r : B,
Solution : Solution is not available		
	77 - 170 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	Answe	r : C,
Solution : Solution is not available		
What is Matter? (A) All substances (C) Anything that has mass and occupies space A. A, B. B, C. C, D. D,	(B) Chemical substance (D) All of the above	s
	Answe	r : C,
	C. C, D. D, Solution: Solution is not available Nowadays in refrigerator is used which is less h (A) CFC (B) HFC (C) C A. A, B. B, C. C, D. D, Solution: Solution is not available Which chemistry is involved in production of chemicals without (A) Yellow chemistry (B) Ideal chemistry (C) Green change (C) A. A, B. B, C. C, D. D, Solution: Solution is not available What is Matter? (A) All substances (C) Anything that has mass and occupies space A. A, B. B, C. C,	C. C, D. D, Answer Solution: Solution is not available Nowadays in refrigerator is used which is less hazardous. (A) CFC (B) HFC (C) CNG (D) CNG A. A, B. B, C. C, D. D, Answer Solution: Solution is not available Which chemistry is involved in production of chemicals without damaging the environment of the company of t

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Q.43	In which state matters	state matters have definite volume and definite shape ?			
	(A) Solid A. A, B. B,	(B) Liquid	(C) Gaseous	(D) All of the above	
	C. C, D. D,				
				Answer : A,	
	Solution : Solution is n	ot available			
Q.44	In which state of mate	er do not have definite	shape ?		
	(A) Solid	(B) Liquid	(C) Gaseous	(D) All of these	
	A. A,				
	B. B, C. C,				
	D. D,				
				Answer : B,	
	Solution : Solution is n	ot available			
	Solution : Solution is in	ot available			
O 45	is made up of s	ame kind of atoms			
Q.±3	(A) Element	(B) Compound	(C) Mixture	(D) All of above	
	A. A,				
	B. B, C. C,				
	D. D,				
				Answer : A,	
	Solution : Solution is n	ot available			
Q.46	What is the mass numb	er of most abundant isot	ope of Carbon?		
				Answer: 12,	
				Aliswei . 12,	
	Solution : Solution is n	ot available			
Q.47	The number of fundamental particles present inside an atom is?				
				Answer : 3,	
				2.1.22.2.0,	

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Solution: Solution is not available

Q.48 The charge on 100 neutrons will be...?

Answer:

Solution: Solution is not available

Q.49 How many states of matter exist in the universe?

Answer:

Solution: Solution is not available

Q.50 Our chemistry is divided in how many parts?

Answer: 3,

Solution: Solution is not available

Q.51 If (x + 2), 2x, (2x + 3) are three consecutive terms of an AP, then x =

- A. 3
- B. 4
- C. 5
- D. 6

Answer: C,

Solution: Solution is not available

Q.52 If 4, x1, x2, x3, 28 are in AP, then x3 = ?

- A. 19
- B. 23
- C. 22

D. cannot be determined

Answer: C,

Solution: Solution is not available

Q.53 How many terms of the AP 3, 7, 11, 15, ... will make the sum 406?

- A. 10
- B. 12



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C.	14

D. 20

Answer: C,

Solution: Solution is not available

- Q.54 How many numbers lie between 10 and 300, which when divided by 4 leave a remainder 3?
 - A. 71
 - B. 72
 - C. 73
 - D. 74

Answer: C,

Solution: Solution is not available

- Q.55 Two APs have the same common difference. Their first terms are 1 and 8 respectively. The difference between their 4th terms is
 - A. 1
 - B. -8
 - C. 7
 - D. 9

Answer: C,

Solution: Solution is not available

- Q.56 The sum of all 2-digit numbers divisible by 5 is
 - A. 1035
 - B. 1245
 - C. 1230
 - D. 945

Answer: D,

- Q.57 30th term of the AP: 10, 7, 4, ..., is
 - A. 97
 - B. 77



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C. - 77

D. -87

Answer: C,

Solution: Solution is not available

Q.58

$$a^n + b^n$$

If arithmetic mean of a and b is $\overline{a^{n-1} + b^{n-1}}$ then value of n is

A. - 1

B. 0

C. 1

D. None of these

Answer: C,

Solution: Solution is not available

Q.59 If the nth term of an A.P. be (2n-1), then the sum of its first n terms will be

A. n2 - 1

B. (2n-1)2

C. *n*2

D. n2 + 1

Answer: C,

Solution: Solution is not available

Q.60 If a, b, c are in A.P. as well as in G.P. then

A. $a = b \neq c$

B. $a \neq b = c$

C. $a \neq b \neq c$

D. a = b = c

Answer: D,

Solution: Solution is not available

Q.61 If the sum of the series 2 + 5 + 8 + 11 is 60100, then the number of terms are -

A. 100

B. 200



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C. 150

D. 250

Answer: B,

Solution: Solution is not available

Q.62

<u>.</u> .

If the pth term of an A.P. be q and qth term be p, then the sum of its pqth terms will be -

- A. pq-1
- B. $\frac{1-pq}{2}$
- C. pq+1
- D. $-\frac{pq+1}{2}$

Answer: C,

Solution: Solution is not available

Q.63 For an A.P., $T_2 + T_5 - T_3 = 10$, $T_2 + T_9 = 17$, then common difference is

- A. 0
- B. 1
- C. 1
- D. 13

Answer: C,

Solution: Solution is not available

Q.64 If the p^{*}, q^{*} and r^{*} term of an arithmetic sequence are a, b and c respectively, then the value of [a (q-r)+b(r-p)+c (p-q)]=

- A. 1
- B. 1
- C. 0
- D. $\frac{1}{2}$

Answer: C,



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Solution: Solution is not available

Q.65 If p times the p^* term of an A.P. is equal to q times the q^* term of an A.P., then $(p+q)^*$ term

- is
- A. 0
- B. 1
- C. 2
- D. 3

Answer: A,

Solution: Solution is not available

Q.66 The sum of first n natural numbers is

- A. n(n-1)
- B. $\frac{n(n-1)}{2}$
- C. n(n + 1)
- D. $\frac{n(n+1)}{2}$

Answer: D,

Solution: Solution is not available

Q.67 If the sum of three consecutive terms of an A.P. is 51 and the product of last and first term is 273, then the numbers are

- A. 21, 17, 13
- B. 20, 16, 12
- C. 22, 18, 14
- D. 24, 20, 16

Answer: A,

Solution : Solution is not available

Q.68 The minimum number of terms of 1+3+5+7+... that add up to a number exceeding 1357 is

- A. 15
- B. 37
- C. 35
- D. 17



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Answer: B,

Solution: Solution is not available

- Q.69 If 2x, x + 8, 3x + 1 are in A.P., then the value of x will be
 - A. 3
 - B. 7
 - C. 5
 - D. 2

Answer: C,

Solution: Solution is not available

- Q.70 If a, b, c are in A.P. then $\frac{(a-c)^2}{(b^2-ac)}$
 - A. 1
 - B. 2
 - C. 3
 - D. 4

Answer: D,

Solution: Solution is not available

Q.71 The sum of first 20 terms of the AP 1, 3, 5, 7, 9 is

Answer : 563,

Solution: Solution is not available

Q.72 In an AP, the first term is 8, nth term is 33 and the sum of first n terms is 123. Then, d = ?

Answer: 5,

Solution: Solution is not available

Q.73 If a, b, c, d, e are in A.P. then the value of a – 4b + 6c – 4d + e in terms of a, if possible is

Answer:

Solution: Solution is not available

Q.74 If the 9th term of an A.P. is 35 and 19th is 75, then its 20th term will be



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Answer : 79,

Solution: Solution is not available

Q.75 There are 15 terms in an arithmetic progression. Its first term is 5 and their sum is 390. The middle term is

Answer : 26,