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UPLOADING SUBJECTS - MAT PHY CHEM BIO ENG

Test / Exam Name: Mcgs Test Standard: 11th Science **Subject: Mathematics**



A
$$x^2 + y^2$$

B
$$\sqrt{x^2+y^2}$$

D x - i y

$$\mathbf{C} x + iy$$

C
$$x + iy$$

E $\sqrt{x^2 - y^2}$

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$$\mathbf{A} \mathbf{a} + \mathbf{c} = \mathbf{0}$$

B
$$a + d = 0$$

C
$$b + d = 0$$

D
$$b + c = 0$$

Q3. According to De Moivre's theorem what is the value of $z^{\frac{1}{n}}$

$$\mathbf{A} \, \mathbf{r}^{\frac{1}{n}} \big[\cos 2k\mathbf{n} + \theta) + \mathbf{i} \sin(2k\mathbf{n} + \theta) \big]$$

$$\left. egin{aligned} egin{aligned} egin{aligned} egin{aligned} rac{1}{n} & \left[rac{\cos 2kn + heta)}{n} & - rac{i \sin (2kn + heta)}{n} \end{aligned}
ight] \end{aligned}$$

$$^{f C} \, r^{rac{1}{n}} igg[rac{\cos 2kn + heta)}{n} + rac{i \sin (2kn + heta)}{n} igg]$$

$$\mathbf{D} \mathbf{r}^{\frac{1}{n}} \left[\cos 2k\mathbf{n} + \mathbf{\theta} \right) - \mathbf{i} \sin(2k\mathbf{n} + \mathbf{\theta}) \right]$$

A quadratic equation $ax^2 + bx + c = 0$ has two distinct real roots, if Q4.

1 Mark

1 Mark

$$\mathbf{A} \mathbf{a} = 0$$

B
$$b^2$$
 - 4ac = 0

C
$$b^2 - 4ac < 0$$

D
$$b^2 - 4ac > 0$$

Q5. The argument of every complex number is: 1 Mark

A Double valued

B Single valued

C Many valued

D Triple valued

The number of solutions of $x^2 + |x-1| = 1$ is: Q6.

1 Mark

1 Mark

A 0

C 2

D 3

Q7.

D any axis

C z - axis

If, $(a+1)x^2 + 2(a+1)x + a - 2 = 0$ then, for what parameter of 'a' the given equation have equal **1 Mark**

Q8.

$$f A \left(-\infty,-1
ight)$$

$$\mathsf{B}\left[\,-1,\infty
ight)$$

$$\mathsf{c}\left(0,1\right)$$

Not possible

Roots of a quadratic equation are real when discriminant is Q9.

1 Mark

A zero

B greater than zero

C less than zero

D greater than or equal to zero

The number of roots of the equation $\frac{(x+2)(x-5)}{(x+3)(x+6)} = \frac{x-2}{x+4}$ is: Q10.

1 Mark

A 0

D 3

If x is a real number and |x| < 5, then: Q11.

1 Mark

A
$$x \ge 5$$

$$B - 5 < x < 5$$

c
$$x < -5$$

$$D -5 < x < 5$$

Q12. Choose the correct answer.

If $|x+2| \leq 9$, then:

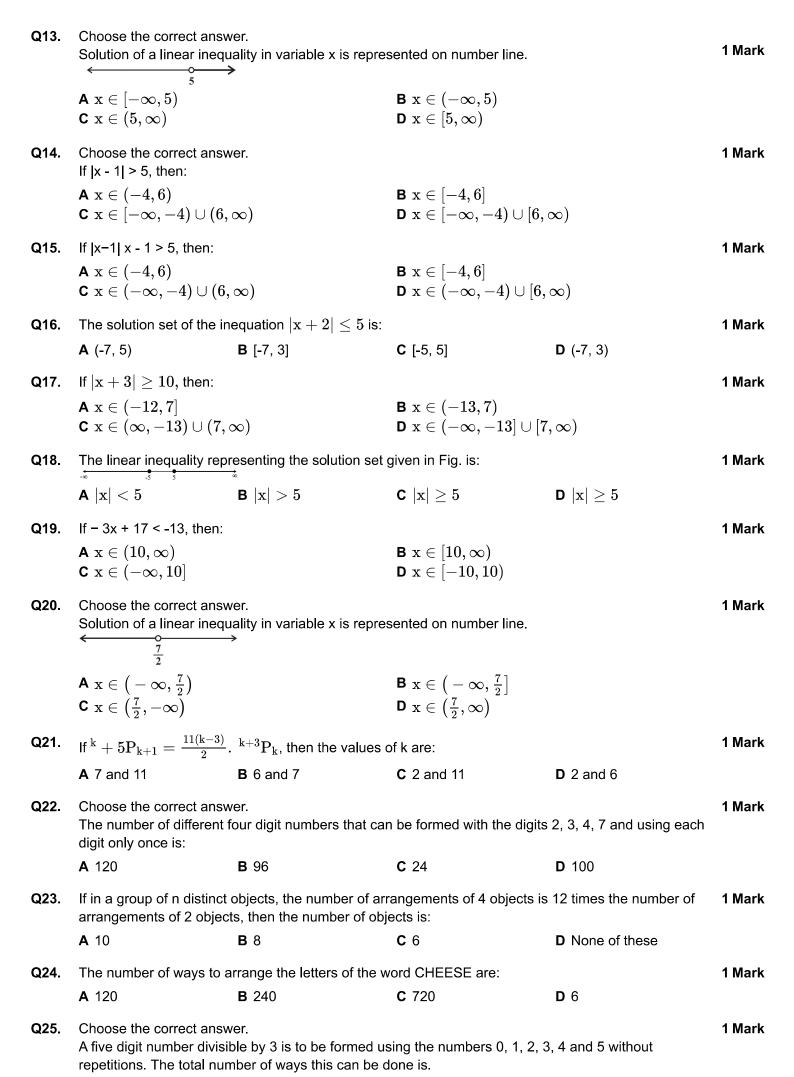
1 Mark

A
$$x \in (-7, 11)$$

$$\mathbf{C} \ \mathbf{x} \in (-7,11)$$

B
$$\mathbf{x} \in [-11,7]$$

$$\mathbf{D} \ \mathrm{x} \in (-\infty, -7) \cup [11, \infty)$$



	of digits in these cases is divisible by 3.]						
	A 216	B 600	C 240	D 3125c			
Q26.	The number of parallelograms that can be formed from a set of four parallel lines intersecting another set of three parallel lines is:						
	A 6	B 9	C 12	D 18			
Q27.	The number of arrangements of the letters of the word BHARAT taking 3 at a time is:						
	A 72	B 120	C 14	D None of these.			
Q28.	Choose the correct answer. The number of words which can be formed out of the letters of the word ARTICLE, so that vowels occupy the even place is.						
	A 1440	B 144	C 7!	D ${}^{4}C_{4} \times {}^{3}C_{3}$			
Q29.	The number of arrangements of the word "DELHI" in which E precedes I is:						
	A 30	B 60	C 120	D 59			
Q30.	The number of words from the letters of the word 'BHARAT' in which B and H will never come tog is:						
	A 360	B 240	C 120	D None of these.			
Q31.	If the sum of first two terms of an infinite G.P. is 1 and every term is twice the sum of all the successive terms, then its first term is:						
	A $\frac{1}{3}$	B $\frac{2}{3}$	C $\frac{1}{4}$	$D \frac{3}{4}$.			
Q32.	In a G.P. of ever number of terms, the sum of all terms is five times the sum of the odd terms. The common ratio of the G.P. is:						
	$A - \frac{4}{5}$	B $\frac{1}{5}$	C 4	D None of these.			
Q33.	Let S be the sum, P be the product and R be the sum of the reciprocals of 3 terms of a G.P. then P^2R^3 : S^3 is equal to:						
	A 1 : 1 C (First term) ² (common ratio) ²		B (common ratio) ⁿ : 1 D None of these.				
Q34.	If in an infinite G.P., first term is equal to 10 times the sum of all successive terms, the its common ratio is:						
	A $\frac{1}{10}$	B $\frac{1}{11}$	C $\frac{1}{9}$	D $\frac{1}{20}$			
Q35.	If a, b, c are in A.P. and x, y, z are in G.P., then the value of x ^{b-c} y ^{c-a} z ^{a-b} is:						
	A 0	B 1	C x y z	$\mathbf{D} \ \mathbf{x}^{\mathbf{a}} \ \mathbf{y}^{\mathbf{b}} \ \mathbf{z}^{\mathbf{c}}$			
Q36.	The sum of an infinite G.P. is 4 and the sum of the cubes of its terms is 92. The common ratio of original G.P. is:						
	A $\frac{1}{2}$	B $\frac{2}{3}$	C $\frac{1}{3}$	D $\frac{-1}{2}$.			
Q37.	The product $(32),(32)^{rac{1}{6}}(32)^{rac{1}{36}}\ldots\mathrm{to}\infty$ is equal to:						
	A 64	B 16	C 32	D 0			
Q38.							
·	A 1	to ∞, is: B 3	C 9	D None of these.	1 Mark		
O30					1 Mark		
Q39.	to:	oduct and K be the sum o	i the reciprocals of niterm	s of a G.P. then P ² is equal	ı wark		

[Hint: 5 digit numbers can be formed using digits 0, 1, 2, 4, 5 or by using digits 1, 2, 3, 4, 5 since sum

	A $\frac{S}{R}$ C $\left(\frac{R}{S}\right)^n$		$egin{aligned} egin{aligned} egin{aligned} egin{aligned} egin{aligned} rac{R}{S} \end{aligned} \end{pmatrix}^n. \end{aligned}$				
Q40.	The nth term of a G.P. is 128 and the sum of its n terms is 225. If its common ratio is 2, then its first term is:						
	A 1	B 3	C 8	D None of these.			
Q41.	Choose the correct answers from the given four option: If sets A and B are defined as $A=\left\{(x,y) y=\frac{1}{x},0\neq x\in R\right\}B=\{(x,y) y=-x,x\in R\},$ then						
	$ \begin{array}{l} \textbf{A} \ A \cap B = A \\ \textbf{C} \ A \cap B = \phi \end{array} $		$\begin{array}{l} \textbf{B} \ A \cap B = B \\ \textbf{D} \ A \cup B = A \end{array}$				
Q42.	Choose the correct answers from the given four option: Let F_1 be the set of parallelograms, F_2 the set of rectangles, F_3 the set of rhombuses, F_4 the set of squares and F_5 the set of trapeziums in a plane. Then F_1 may be equal to,						
	A $F_2 \cap F_3$ C $F_2 \cup F_5$		B $F_3 \cap F_4$ D $F_2 \cup F_3 \cup F_4 \cup F_1$				
Q43.	Choose the correct answers from the given four option: If A = {1, 3, 5, 7, 9, 11, 13, 15, 17} B = {2, 4,, 18} and N the set of natural numbers is the universal set, then $A' \cup (A \cup B) \cup B'$ is						
	A ϕ	B N	C A	D B			
Q44.	Choose the correct answers from the given four option: Let $S = \{x \mid x \text{ is a positive multiple of 3 less than 100}\} P = \{x \mid x \text{ is a prime number less than 20}\}.$ Then $n(S) + n(P)$ is.						
	A 34	B 31	C 33	D 30			
Q45.	Choose the correct answers from the given four option: The set $(A\cap B')'\cup (B\cap C)$ is equal to.						
	$\begin{array}{l} \textbf{A} \ A' \cup B \cup C \\ \textbf{C} \ A' \cup C' \end{array}$		$\begin{array}{l} \textbf{B} \ A' \cup B \\ \textbf{D} \ A' \cap B \end{array}$				
Q46.	Choose the correct answers from the given four option: If A and B are two sets, then $A\cap (A\cup B)$ equals.						
	A A C ϕ		$\begin{array}{l} \textbf{B} \; B \\ \textbf{D} \; A \cap B \end{array}$				
Q47.		$n(A - B) = 47$ then $n(A \cup B)$			1 Mark		
	A 373	B 165	C 370	D None			
Q48.	Which of the following tw A A = {1, 2} and B = {1} C A = {1, 2, 3} and B = {2	2, 3} 1, 2, 3}	1 Mark				
Q49.	If A = {1, 2, 3, 4, 5, 6}, B = {2, 4, 6, 8}, then A - B will be:						
	A {1, 3, 5, 8}	B {1, 3, 5}	C {1, 2, 3, 4, 5, 6, 8}	$\mathbf{D} = \{\}$			
Q50.	Let A and B be two sets s A A'	such that A ∩ B = φ. Find t B B	the value of (A ∪ B′) = C φ	D none of these.	1 Mark		
Q51.	$8\sin\frac{x}{8}\cos\frac{x}{2}\cos\frac{x}{4}\cos\frac{x}{8}$	is equal to:			1 Mark		
	8 cos x	B cos x	C 8 sin x	$\mathbf{D} \sin \mathbf{x}$			
Q52.	The angle between the m	ninute and hour hands of a	a clock at 8 : 30 is:		1 Mark		

 $2(1-2\sin^2 7x)\sin 3x$ is equal to: Q53.

 $\mathbf{B} \sin 11\mathbf{x} - \sin 17\mathbf{x}$

 $A \sin 17x - \sin 11x$ $\mathbf{C} \cos 17\mathbf{x} - \cos 11\mathbf{x}$

 $D \cos 17x + \cos 11x$

Q54. For all real values of x, $\cot x - 2 \cot$ is equal to: 1 Mark

1 Mark

A $\tan 2x$

 $B \tan x$

 $\mathbf{C} - \cot 3?\mathbf{x}$

D None of these

The value of $\frac{2(\sin 2x + 2\cos^2 x - 1)}{\cos x - \sin x - \cos 3x + \sin 3x}$ is: Q55.

1 Mark

 $A \cos x$ \mathbf{C} cosec \mathbf{x} $\mathbf{B} \sec \mathbf{x}$

The value of $\frac{\cos 3x}{2\cos 2x-1}$ is equal to:

 $\mathbf{D} \sin \mathbf{x}$

Q56.

 $C \tan x$

 $\mathbf{A} \cos \mathbf{x}$

 $\mathbf{B}\sin\mathbf{x}$

D None of these

 $\frac{\sec 8A-1}{\sec 4A-1}$ is equal to: Q57.

tan 2A

D None of these

Q58. If $\cos x = -\frac{1}{2}$ and $0 < x < 2\pi$, then the solutions are: 1 Mark

1 Mark

1 Mark

B $\mathbf{x} = \frac{2\pi}{3}, \ \frac{4\pi}{3}$ **D** $\theta = \frac{2\pi}{3}, \ \frac{5\pi}{3}$

A $x = \frac{\pi}{3}, \frac{4\pi}{3}$ **C** $x = \frac{2\pi}{3}, \frac{7\pi}{3}$

The value of $\sin^2\left(\frac{\pi}{18}\right) + \sin^2\left(\frac{\pi}{9}\right) + \sin^2\left(\frac{7\pi}{18}\right) + \sin^2\left(\frac{4\pi}{9}\right)$ is: Q59.

1 Mark

A 1

C 3

D None of these

If $x\sin45^\circ\cos^260^\circ=\frac{\tan^260^\circ\csc30^\circ}{\sec45^\circ\cot^230^\circ},$ then x = Q60.

1 Mark

A 2

B 4

C 8

D 16

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