

R. D. Engineering College, Ghaziabad College Code-231

Approved by AICTE & Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow

Pushplata Scholarship Scheme Policy(Year 2018-19)

Date: - 03-06-2018

On the Basis of Admission test conducted for the students taking admissions in B.Tech 1st Year of all the Courses, College Management has decided to provide Scholarship to these Students in the form of Fee Concession in their 1st Year Fees.

The Criteria for scholarship is as follows:-

Students Scoring more than 90% Marks in the admission test will be provided a concession of Rs 25668.

Dr. Sanjeev Sharma

(Director)

Cc To

1. All HODs

. Chief Finance Officer

3. Accounts Department

4. IQAC

R.D. Engineering College

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R.D. Engineering Chaziabad

Duhai, Ghaziabad

Director

R.D. Engineering College

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R.D. ENGINEERING COLLEGE, GHAZIABAD PUSHPLATA SCHOLARSHIP SCHEME(DETAILS)

Session: 2018-19

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	1823110111	1823110109	1823110077	1823110068	1823110061	1823110049	1823110032	1823110002	ROLL NO
	Ujjawal	Tushar Kansal	Prateek Mani Tripathi	Paras Goel	Nipun Sharma	Mayank Tyagi	Himanshu Agarwal	Aaryan Tyagi	NAME
•	Magendra Tyagi	Subhash	Rajesh Mani Tripathi	Subhash Goel	Yogesh Kumar	Rajesh Tyagi	Praveen Kr. Agarwal	Arun Tyagi	FATHER'S NAME
	ß	S	ß	S	ß	ß	S	S	BRANCH
	1st	1st	1st	1st	1st	1st	1st	15T	YEAR
Total Consession Provided:	81482	81482	81482	81482	81482	81482	81482	81482	TOTAL FEE (Rs)
₹205,344	25668	25668	25668	25668	25668	25668	25668	25668	CONCESSION PROVIDED (Rs)





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	Qualifying Examination	Time: - 2 Hrs
Name of Applicant: Awyam Tyan Father's Name: - Ayyam Tyan Branch (to be opted):	Admission Year – (2018-19)	Head of ASH of ASH
Note:- Attempt all Questions. Ea	ch question is of 1 mark	11
-	The state of the s	
1 If the amplitude of a complex number	The first way as a	inary
(a) purely imaginary (b) purely real		iliai y
2 What is the value of factorial Zero (0! (a) 10 (b) 0	(6)1	(d) -1
3 In how many different ways can the lecome together?	etters of the word 'CORPORATION'	be arranged so that the vowels always
(a) 810 (b) 1440 (c) 2880		
4 Let $R = \{(3,1), (2,4), (4,2), (3,2), (4,2), (3,2), (4,$	1,3)} be a relation on the set $A = \{4$,3,2,1 }. The relation R is
(a) a function (b) transitive (c) not synts. In triangle ABC, we are given that 3 is (a) 30° (b) 150° (c) 60° 6. The number of values of x in the integral (a) 4 (b) 6 (c) 1 7. The line y=mx+c intersects the circle (a) 1 (b) 2 (c) 3 (d) 4	$\sin A + 4 \cos B = 6$ and $4 \sin B + 3 \cos B$ (d) 75° erval [0, 3π] satisfying the equation 2: (d) 2	points.
8 The line $5x - 2y + 4k = 0$ is a tanger (a) $4/9$ (b) $2/3$ (c) $9/4$ (d) $81/16$		uding Tispad
9. The center of the circle $4x^2+4y^2-8x+3$		Der
(a) (1,2) (b) (-1,3/2) (c) (-3/2,1) (d)	(1,-3/2)	Collows ademics (1604)
(a) (1,2) (b) (-1,3/2) (c) (-3/2,1) (d) 10. The line passing through the point (a) a = 2, b = 8 (b) a = 4, b =	s (5, 1, a) and (3, b, 1) crosses the yz- 6 (c) a = 6, b = 4 (d) a = 8, b	-plane at the point demics (1644) 2) The best Proposition of the point

11. The pair of quantities having the same dimensions is	° an
(a) Displacement, velocity (b) time, frequency (c) Wavelength, focal length (d) force, acceleration
12. Average distance of the Sun from the Earth	
(a) light year (b) astronomical unit (c) fermi (d) parsec	
13. The number of significant figures in the number 0.0028 is,	
(a) 2 (b) 3 (c) 4 (d) 5	
14. Which of the following is not the unit of time	· *
(a) second (b) minute (c) month (d) light year	
15. If $x = a + bt + ct^2$, where x is in metre and t in second, then what is the unit of 'c'	?
(a) m/s (b) m/s ² (c) kgm/s (d) m^2/s	
16. The base quantity among the following is,	
(a) Speed (b) area (c) length (d) weight	
17. Dimensional analysis can be applied to	
(a) to check the correctness of a physical equation. (b) to derive the relationship be quantities.	between different physical
(c) to convert a physical quantity from one system of units to other. (d) All of the	above
18. Which of the following physical quantity has the dimensional formula [M¹L²T⁻³	
(a) work (b) power (c) work (d) impulse	
19. The dimensions of universal gravitational constant is	
(a) $[M^{-1}L^3T^{-2}]$ (b) $[M^1L^1T^{-2}]$ (c) $[M^{-1}L^2T^{-2}]$ (d) $[M^1L^{-1}T^{-1}]$	· ·
20. Which of the following is dimensionless	
(a) force/acceleration	
(b) velocity/acceleration	
(c) volume/area	
The state of the s	
	d 2

21. Scale may be formed inside the boiler due to decomposition o	21.Scale may	be formed	inside the	boiler due	to decomposition of
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_	a) Ca(HCO ₃) ₂			
	b) MgCO ₃	je I		
	c) MgCl ₂			
	d) CaCl ₂			
	22. The chemical formula of zeolite isa) FeSO ₄ .7H ₂ O b) Al2(SO ₄) ₃ .18 H ₂ O c) Na ₂ O.Al ₂ O ₃ .xSiO ₂ .yH ₂ O d) Na ₂ Al ₂ O ₃			
)	23. Which bond has the highest bond energy			
	O2 b) O_2^{+2} c) O_2^{2-}	d) O ²	-	
	24. When silicon (Si) is doped with phosphorous (P) we get		ø
	a) p-type semiconductor b) n-type	semiconductor		
	c) Insulator d) Intrins	ic semiconductor		
	25.A pi-bond is formed by sideway overlapping of	f	1.	
	a) s-s orbitals	b) p-p orbita		
	c) s-p orbitals	d) s-p-s orbit	Dean Acad	emics College
	26. Temporary hardness of water can be removed by	ру	Dean Acad R.D. Engineer Duhai, G	naziabad
	a) Boiling		R.D Duhan	

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R.D. Engineering College

Duhai Ghaziar

d) Sedimentation

b) Filtration

c) Screening

R.D. Engine Labad 27. Suspension of milk is

,	a) CaCl ₂	b) Ca(OH) ₂	c) NaCl	d) MgCl ₂	
	28. Which of	the following is not a Po	lyamide		
	a) Leather	b) Natural rubber		c) Wool	d) Nylon-66
	29. The catalys	st used in the manufactur	e of polyether	e by Ziegler method is	
	a) Lithium tetr	achloride and triphenyl a	aluminium		
	b) Titanium te	trachloride and trimethyl	aluminium	0	
	c) Titanium ox	ride		# 	
	d) Titanium is	operoxide		*	
	30. When CH ₃	MgI is made to react wi	th acetone and	I the addition product is	hydrloysed we get
	a) Primary alc	ohol		b) Secondary alcoho	1
	c) Tertiary alco	ohol		d) An aldehyde	



Qualifying Examination

Time: - 2 Hrs

Admission Year - (2018-19)

Name of Applicant: Himanshu Agarwal
Father's Name: P. stav. e. en Kor. Agamual 30 ASH OF ASH
Branch (to be opted):
Note:- Attempt all Questions. Each question is of 1 mark.
1 If the amplitude of a complex number is $\pi/2$ then the number is
(a) purely imaginary (b) purely real (c) 0 (d) neither real nor imaginary
2 What is the value of factorial Zero (0!)
(a) 10 (b) 0 (c) 1 (d) -1
3 In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together? (a) 810 (b) 1440 (c) 2880 (d) 50400 4 Let R = {(3,1),(2,4),(4,2),(3,2),(1,3)} be a relation on the set A = {4,3,2,1}. The relation R is
(a) a function (b) transitive (c) not symmetric (d) reflexive. 5. In triangle ABC, we are given that $3 \sin A + 4 \cos B = 6$ and $4 \sin B + 3 \cos A = 1$. Then the measure of the angle is (a) 30° (b) 150° (c) 60° (d) 75° 6. The number of values of x in the interval $[0, 3\pi]$ satisfying the equation $2\sin^2 x + 5\sin x - 3 = 0$ is (a) 4 (b) 6 (c) 1 (d) 2 7. The line $y=mx+c$ intersects the circle $x^2+y^2=a^2$ at the most of points. (a) 1 (b) 2 (c) 3 (d) 4
8 The line $5x - 2y + 4k = 0$ is a tangent to $4x^2 - y^2 = 36$ then k is (a) $4/9$ (b) $2/3$ (c) $9/4$ (d) $81/16$ 9. The center of the circle $4x^2 + 4y^2 - 8x + 12y - 25 = 0$ is? (a) $(1,2)$ (b) $(-1,3/2)$ (c) $(-3/2,1)$ (d) $(1,-3/2)$ 10. The line passing through the points $(5, 1, a)$ and $(3, b, 1)$ crosses the yz-plane at the paint $(-3/2, 1)$ (d) $(-3/2, 1)$ (e) $(-3/2, 1)$ (f) $(-3/2, 1)$ (f) $(-3/2, 1)$ (g) $(-3/2, 1)$ (g) $(-3/2, 1)$ (g) $(-3/2, 1)$ (h) $(-3$

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(a) Displacement, velocity (b) time, frequency (c) Wavelength, focal length (d) for	ce, acceleration
12. Average distance of the Sun from the Earth	
(a) light year (b) astronomical unit (c) fermi (d) parsec	
13. The number of significant figures in the number 0.0028 is,	
(a) 2 (b) 3 (c) 4 (d) 5	
14. Which of the following is not the unit of time	
(a) second (b) minute (c) month (d) light year	
15. If $x = a + bt + ct^2$, where x is in metre and t in second, then what is the unit of 'c'?	
(a) m/s (b) m/s^2 (c) kgm/s (d) m^2/s	
16. The base quantity among the following is,	
(a) Speed (b) area (c) length (d) weight	
17. Dimensional analysis can be applied to	т т
(a) to check the correctness of a physical equation. (b) to derive the relationship betwe quantities.	en different physica
(c) to convert a physical quantity from one system of units to other. (d) All of the above	re
18. Which of the following physical quantity has the dimensional formula [M ¹ L ² T ⁻³]	
(a) work (b) power (c) work (d) impulse	
19. The dimensions of universal gravitational constant is	
(a) $[M^{-1}L^3T^{-2}]$ (b) $[M^1L^1T^{-2}]$ (c) $[M^{-1}L^2T^{-2}]$ (d) $[M^1L^{-1}T^{-1}]$	2 4
20. Which of the following is dimensionless	
(a) force/acceleration	
(b) velocity/acceleration	
(c) volume/area	
Director R. D. Engineering College Buthal. Charter 1	
	* &

11. The pair of quantities having the same dimensions is

(d) energy/work		
21.Scale may be formed inside the boil	er due to decomposition of:	

a) Ca(HCO ₃) ₂		
b) MgCO ₃		
c) MgCl ₂		
d) CaCl ₂		
22. The chemical formula of zeolite is a) FeSO ₄ .7H ₂ O b) Al2(SO ₄) ₃ .18 H ₂ O c) Na ₂ O.Al ₂ O ₃ .xSiO ₂ .yH ₂ O d) Na ₂ Al ₂ O ₃	·	
23. Which bond has the highest bond en	nergy	
O2 b) Q_2^{+2}	c) O ₂ ²⁻ d) O ²⁻	· ·
24. When silicon (Si) is doped with pho	osphorous (P) we get	ж
a) p-type semiconductor	b) n-type semiconductor	
c) Insulator	d) Intrinsic semiconductor	
25.A pi-bond is formed by sideway or	verlapping of	
a) s-s orbitals	b) p-p orbitals	· · · · · ·
c) s-p orbitals	d) s-p-s orbitals	a de-
26. Temporary hardness of water can	be removed by	Dean Academics Engineering College Chaziabad
c) s-p orbitals26. Temporary hardness of water cana) Boilingb) Filtration	R.D. Engling Ziabo	Dean Academics R.D. Engineering College Duhai, Ghaziabad
b) Filtration		Day
c) Screening		Doc .

d) Sedimentation

27. Suspension of milk is

to	a) CaCl ₂	b) Ca(OH) ₂	c) NaCl	d) MgCl ₂	
	28. Which of th	ne following is not a Pol	yamide		
	a) Leather	b) Natural rubber		c) Wool	d) Nylon-66
	29. The catalyst	used in the manufacture	e of polyethene	by Ziegler method is	
	a) Lithium tetra	chloride and triphenyl al	luminium		
(b) Titanium tetr	achloride and trimethyl	aluminium		
	c) Titanium oxi	de		a -	
	d) Titanium iso	peroxide			
	30. When CH ₃	MgI is made to react wit	h acetone and t	the addition product is l	hydrloysed we get
	a) Primary alco	hol		b) Secondary alcohol	
	c) Tertiary alcol	hol		d) An aldehyde	
		7			



Qualifying Examination

Time: - 2 Hrs

Admission Year – (2018-19)
Name of Applicant:
Father's Name: - Rayesh tyagi
Branch (to be opted):5
Note:- Attempt all Questions. Each question is of 1 mark.
1 If the amplitude of a complex number is $\pi/2$ then the number is
(a) purely imaginary (b) purely real (c) 0 (d) neither real nor imaginary
2 What is the value of factorial Zero (0!)
(a) 10 (b) 0 (c) 1 (d) -1
3 In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together?
(a) 810 (b) 1440 (c) 2880 (d) 50400
4 Let $R = \{(3,1),(2,4),(4,2),(3,2),(1,3)\}$ be a relation on the set $A = \{4,3,2,1\}$. The relation R is
(a) a function (b) transitive (c) not symmetric (d) reflexive. 5. In triangle ABC, we are given that $3 \sin A + 4 \cos B = 6$ and $4 \sin B + 3 \cos A = 1$. Then the measure of the angle is (a) 30° (b) 150° (c) 60° (d) 75°
6. The number of values of x in the interval [0, 3π] satisfying the equation $2\sin^2 x + 5\sin x - 3 = 0$ is (a) 4 (b) 6 (c) 1 (d) 2
7. The line $y=mx+c$ intersects the circle $x^2+y^2=a^2$ at the most of points. (a) 1 (b) 2 (c) 3 (d) 4
8 The line $5x - 2y + 4k = 0$ is a tangent to $4x^2 - y^2 = 36$ then k is
(a) 4/9 (b) 2/3 (c) 9/4 (d) 81/16
9. The center of the circle $4x^2+4y^2-8x+12y-25=0$ is?
(a) 4/9 (b) 2/3 (c) 9/4 (d) 81/16 9. The center of the circle 4x ² +4y ² -8x+12y-25=0 is? (a) (1,2) (b) (-1,3/2) (c) (-3/2,1) (d) (1,-3/2) 10. The center of the circle 4x ² +4y ² -8x+12y-25=0 is? Engine Find the point (0, 17/2, -13/2) [198]
10. The line passing through the points $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the yz -plane at the point $(5, 1, a)$ and $(5, b, 1)$ crosses the $(5, 1, a)$ and $(5, 1, a)$ a
10. The line passing through the points $(5, 1, a)$ and $(5, b, 1)$ crosses the yz plane at the point $(5, 1, a)$ and $(5, 1, a)$ crosses the yz plane at the point $(5, 1, a)$ and $(5, 1, a)$ and $(5, 1, a)$ and $(5, 1, a)$ and $(5, 1, a)$ crosses the yz plane at the point $(5, 1, a)$ and $(5, 1, a)$ crosses the yz plane at the point $(5, 1, a)$ and $(5, 1, a)$ crosses the yz plane at the point $(5, 1, a)$ and $(5, 1, a)$ crosses the yz plane at the point $(5, 1, a)$ and $(5, 1, a)$ crosses the yz plane at the point $(5, 1, a)$ and $(5, 1, a)$ crosses the yz plane at the point $(5, 1, a)$ and $(5, 1, a)$ crosses

Director R.D. Engineering College Duhai, Ghaziabad

11. The pair of quantities having the same dimensions is	
(a) Displacement, velocity (b) time, frequency (c) Wavelength, focal length (d) force,	acceleration
12. Average distance of the Sun from the Earth	
(a) light year (b) astronomical unit (c) fermi (d) parsec	
13. The number of significant figures in the number 0.0028 is,	
(a) 2 (b) 3 (c) 4 (d) 5	
14. Which of the following is not the unit of time	
(a) second (b) minute (c) month (d) light year	
15. If $x = a + bt + ct^2$, where x is in metre and t in second, then what is the unit of 'c'?	
(a) m/s (b) m/s ² (c) kgm/s (d) m^2/s	
16. The base quantity among the following is,	
(a) Speed (b) area (c) length (d) weight	
17. Dimensional analysis can be applied to	* • 1. 6.1
(a) to check the correctness of a physical equation. (b) to derive the relationship between	different physica
quantities.	
(c) to convert a physical quantity from one system of units to other. (d) All of the above	,
18. Which of the following physical quantity has the dimensional formula [M¹L²T⁻³]	
(a) work (b) power (c) work (d) impulse	8 K
19. The dimensions of universal gravitational constant is	
(a) $[M^{-1}L^{3}T^{-2}]$ (b) $[M^{1}L^{1}T^{-2}]$ (c) $[M^{-1}L^{2}T^{-2}]$ (d) $[M^{1}L^{-1}T^{-1}]$	~
20. Which of the following is dimensionless	
(a) force/acceleration	
(b) velocity/acceleration	
(c) volume/area	
Director	

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26. Temporary hardness of water can be removed by

a) Boiling

b) Filtration

Screening

d) Sedimentation

27. Suspension of milk is

a) CaCl ₂ b) Ca(OH) ₂	c) NaCl	d) MgCl ₂		
28. Which of the following is not a Poly	vamide			
a) Leather b) Natural rubber		c) Wool	d) Nylon-66	
29. The catalyst used in the manufacture	of polyethene b	y Ziegler method is		
a) Lithium tetrachloride and triphenyl al			V.	
c) Titanium oxide		(A)		
d) Titanium isoperoxide				
30. When CH ₃ MgI is made to react with	h acetone and the	e addition product is h	ydrloysed we	get
a) Primary alcohol	m 111	b) Secondary alcohol		
c) Tertiary alcohol		d) An aldehyde		

R D. Engineering Cura Duhai Ghaziabad



Qualifying Examination

Time: - 2 Hrs

Admission Year – (2018-19)
Name of Applicant: Ni bun Sharma
Father's Name: Xci queh kumar
Branch (to be opted):C.S
Note:- Attempt all Questions. Each question is of 1 mark.
1 If the amplitude of a complex number is $\pi/2$ then the number is
(a) purely imaginary (b) purely real (c) 0 (d) neither real nor imaginary
2 What is the value of factorial Zero (0!)
(a) 10 (b) 0 (c) 1 (d) -1
3 In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together?
(a) 810 (b) 1440 (c) 2880 (d) 50400
4 Let $R = \{(3,1), (2,4), (4,2), (3,2), (1,3)\}$ be a relation on the set $A = \{4,3,2,1\}$. The relation R is
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(a) 30° (b) 150° (c) 60° (d) 75° 6. The number of values of x in the interval $[0, 3\pi]$ satisfying the equation $2\sin^2 x + 5\sin x - 3 = 0$ is (a) 4 (b) 6 (c) 1 (d) 2
7. The line $y=mx+c$ intersects the circle $x^2+y^2=a^2$ at the most of points.
(a) 1 (b) 2 (c) 3 (d) 4 8 The line $5x - 2y + 4k = 0$ is a tangent to $4x^2 - y^2 = 36$ then k is (a) $4/9$ (b) $2/3$ (c) $9/4$ (d) $81/16$ 9. The center of the circle $4x^2 + 4y^2 - 8x + 12y - 25 = 0$ is? (a) $(1,2)$ (b) $(-1,3/2)$ (c) $(-3/2,1)$ (d) $(1,-3/2)$
(a) 4/9 (b) 2/3 (c) 9/4 (d) 81/16
9. The center of the circle $4x^2+4y^2-8x+12y-25=0$ is?
(a) (1,2) (b) (-1,3/2) (c) (-3/2,1) (d) (1,-3/2)
10. The line passing through the points $(5, 1, a)$ and $(3, b, 1)$ crosses the yz-plane at the point $(0, 17/2, cs)$ (a) $a = 2, b = 8$ (b) $a = 4, b = 6$ (c) $a = 6, b = 4$ (d) $a = 8, b = 2$ Dean Academics Duhai, Ghaziabad
R.D. Engineering College Duhai, Ghaziabad

11. The pair of quantities having the same dimensions is	
(a) Displacement, velocity (b) time, frequency (c) Wavelength, focal length (d) f	orce, acceleration
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(a) 2 (b) 3 (c) 4 (d) 5	
14. Which of the following is not the unit of time	* 5
(a) second (b) minute (c) month (d) light year	
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(a) m/s (b) m/s^2 (c) kgm/s (d) m^2/s	
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(a) $[M^{-1}L^3T^{-2}]$ (b) $[M^1L^1T^{-2}]$ (c) $[M^{-1}L^2T^{-2}]$ (d) $[M^1L^{-1}T^{-1}]$, il x , "
20. Which of the following is dimensionless	
(a) force/acceleration	
(b) velocity/acceleration	
(c) volume/area	
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c) Insulator

d) Intrinsic semiconductor

25.A pi-bond is formed by sideway overlapping of

a) s-s orbitals

c) s-p orbitals

26. Temporary hardness of water can be removed by

a) Boiling

b) Filtration

c) Screening

d) Sedimentation

27. Suspension of milk is

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Duhai, Ghaziabad

a) CaCl ₂	cb) Ca(OH) ₂	c) NaCl	d) MgCl ₂	
28. Which of th	e following is not a Pol	yamide		
a) Leather	b) Natural rubber		c) Wool	d) Nylon-66
29. The catalyst	used in the manufacture	e of polyetl	nene by Ziegler method is	
a) Lithium tetra	chloride and triphenyl a	luminium		
b) Titanium tetra c) Titanium oxid d) Titanium isop	er at fleet	aluminium		
30. When CH ₃ l	MgI is made to react wi	th acetone	and the addition product is	hydrloysed we get
a) Primary alcol	hol		b) Secondary alcohol	· · · · · · · · · · · · · · · · · · ·
c) Tertiary alcol	hol		d) An aldehyde	
		16		



Qualifying Examination

Time: - 2 Hrs

Admission $Year - (2018-19)$
Name of Applicant: - lands Goef Father's Name: - Subhash Goef Head 2
Father's Name:
Branch (to be opted):
Note:- Attempt all Questions. Each question is of 1 mark.
1 If the amplitude of a complex number is $\pi/2$ then the number is
(a) purely imaginary (b) purely real (c) 0 (d) neither real nor imaginary
2 What is the value of factorial Zero (0!)
(a) 10 (b) 0 (c) 1 (d) -1
3 In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together?
(a) 810 (b) 1440 (c) 2880 (d) 50400
4 Let R = {(3,1),(2,4),(4,2),(3,2),(1,3)} be a relation on the set A = {4,3,2,1}. The relation R is (a) a function (b) transitive (c) not symmetric (d) reflexive. 5. In triangle ABC, we are given that $3 \sin A + 4 \cos B = 6$ and $4 \sin B + 3 \cos A = 1$. Then the measure of the angle is (a) 30° (b) 150° (c) 60° (d) 75° 6. The number of values of x in the interval $[0, 3\pi]$ satisfying the equation $2\sin^2 x + 5\sin x - 3 = 0$ is (a) 4 (b) 6 (c) 1 (d) 2 7. The line $y = mx + c$ intersects the circle $x^2 + y^2 = a^2$ at the most of points. (a) 1 (b) 2 (c) 3 (d) 4 8 The line $5x - 2y + 4k = 0$ is a tangent to $4x^2 - y^2 = 36$ then k is (a) 4/9 (b) 2/3 (c) 9/4 (d) 81/16 9. The center of the circle $4x^2 + 4y^2 - 8x + 12y - 25 = 0$ is? (a) (1,2) (b) (-1,3/2) (c) (-3/2,1) (d) (1,-3/2)
9. The center of the circle $4x^2+4y^2-8x+12y-25=0$ is ? (a) (1,2) (b) (-1,3/2) (c) (-3/2,1) (d) (1,-3/2)
10. The line passing through the points $(5, 1, a)$ and $(3, b, 1)$ crosses the yz-plane at the point $(0, 17/2, -13)$ (a) $a = 2, b = 8$ (b) $a = 4, b = 6$ (c) $a = 6, b = 4$ (d) $a = 8, b = 2$ Director college Dean Academics Pengineering

(a) Displacement, velocity (b) time, frequency (c) Wavelength, focal length (d) force, acceleration
12. Average distance of the Sun from the Earth
(a) light year (b) astronomical unit (c) fermi (d) parsec
13. The number of significant figures in the number 0.0028 is,
(a) 2 (b) 3 (c) 4 (d) 5
14. Which of the following is not the unit of time
(a) second (b) minute (c) month (d) light year
15. If $x = a + bt + ct^2$, where x is in metre and t in second, then what is the unit of 'c'?
(a) m/s (b) m/s ² (c) kgm/s (d) m^2/s
16. The base quantity among the following is,
(a) Speed (b) area (c) length (d) weight
17. Dimensional analysis can be applied to
(a) to check the correctness of a physical equation. (b) to derive the relationship between different physical quantities.
(c) to convert a physical quantity from one system of units to other. (d) All of the above
18. Which of the following physical quantity has the dimensional formula [M¹L²T⁻³]
(a) work (b) power (c) work (d) impulse
19. The dimensions of universal gravitational constant is
(a) $[M^{-1}L^3T^{-2}]$ (b) $[M^1L^1T^{-2}]$ (c) $[M^{-1}L^2T^{-2}]$ (d) $[M^1L^{-1}T^{-1}]$
20. Which of the following is dimensionless
(a) force/acceleration
(b) velocity/acceleration
(c) volume/area
Track

11. The pair of quantities having the same dimensions is

27. Suspension of milk is

21	Casla		1	C 1	1	.1	1 '1	1		1
21	.Scale	may	De	iormed	inside	tne	poller	aue	to	decomposition of:

a) Ca(HCO ₃) ₂	
b) MgCO ₃	
c) MgCl ₂	
d) CaCl ₂	
22. The chemical formula of zeolite is a) FeSO ₄ .7H ₂ O b) Al2(SO ₄) ₃ .18 H ₂ O c) Na ₂ O.Al ₂ O ₃ .xSiO ₂ .yH ₂ O d) Na ₂ Al ₂ O ₃	
23. Which bond has the highest bond energy	
O2 b) O_2^{+2} c) O_2^{2-} d) O_2^{2-}	*
24. When silicon (Si) is doped with phosphorous (P) we get	
a) p-type semiconductor b) n-type semiconductor	
c) Insulator d) Intrinsic semiconductor	
25.A pi-bond is formed by sideway overlapping of	
a) s-s orbitals b) p-p orbitals .	-20-1
a) s-s orbitals c) s-p orbitals Consequences of water can be removed by Charles and	0
c) s-p orbitals 26. Temporary hardness of water can be removed by R.D. Engine Ghaziabad R.D. Duhai Ghaziabad	
a) Boiling	
b) Filtration e) Screening Director College	
d) Sedimentation Director College R.D. Engineering abad Duhai, Ghaziabad	

e,	a) CaCl ₂	b) Ca(OH) ₂	c) NaCl	d) MgCl ₂		
•	28. Which of	the following is not a Po	olyamide			
	a) Leather	b) Natural rubber		c) Wool	d) Nylon-66	1 8.0
	29. The cataly	st used in the manufactu	are of polyether	ne by Ziegler method	d is	
	a) Lithium tet	rachloride and triphenyl	aluminium			
<u></u>	b) Titanium te	etrachloride and trimethy	l aluminium			
	c) Titanium o	xide		220 a		
	d) Titanium is	soperoxide				
	30. When CH	MgI is made to react v	vith acetone and	d the addition produc	ct is hydrloysed we g	get
	a) Primary alo	cohol		b) Secondary alc	cohol	
	c) Tertiary alo	cohol		d) An aldehyde		

R D Engines, Grazila



Oualifying Examination

Time: - 2 Hrs

Admission Year – (2018-19)

Name of Applicant: - Partick man Tripathi

Father's Name: - Raisesh Man Tripath

Branch (to be opted):-



Note:- Attempt all Questions. Each question is of 1 mark.

- 1 If the amplitude of a complex number is $\pi/2$ then the number is
- (a) purely imaginary
- (b) purely real
- (c)0
- (d) neither real nor imaginary
- 2 What is the value of factorial Zero (0!)
- (a) 10

(b) 0

- (c) 1
- (d) -1

3 In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together?

- (a) 810
- (b) 1440
- (c) 2880 (d) 50400

4 Let $R = \{(3,1), (2,4), (4,2), (3,2), (1,3)\}$ be a relation on the set $A = \{4,3,2,1\}$. The relation R is

(a) a function (b) transitive (c) not symmetric (d) reflexive.

5. In triangle ABC, we are given that $3 \sin A + 4 \cos B = 6$ and $4 \sin B + 3 \cos A = 1$. Then the measure of the angle

- (a) 30°
- (b) 150°
- $-(c) 60^{\circ}$
- (d) 75°

6. The number of values of x in the interval [0, 3π] satisfying the equation $2\sin^2 x$ Predu Acade ting College Duhai, Chaziabad

- (a) 4
- (c) 1
- (d)2

7. The line y=mx+c intersects the circle $x^2+y^2=a^2$ at the most of (c) 3 (d) 4 (b) 2

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- 8 The line 5x 2y + 4k = 0 is a tangent to $4x^2$

- (a) 4/9 (b) 2/3 (c) 9/4 (d) 81/16
- 9. The center of the circle $4x^2 + 4y^2 8x + 12y 25 = 0$ is?

(a) (1,2) (b) (-1,3/2) (c) (-3/2,1) (d) (1,-3/2)

10. The line passing through the points (5, 1, a) and (3, b, 1) crosses the yz-plane at the point (0, 17/2, -13-24 dec

(a) a = 2, b = 8

(b) a = 4, b = 6

(c) a = 6, b = 4

(d) a = 8, b = 2

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21. Scale may be formed inside the boiler due to deco	nposition of:
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a) Ca(HCO ₃) ₂	
b) MgCO ₃	E.
c) MgCl ₂	
d) CaCl ₂	
22. The chemical formula of zeolite is a) FeSO ₄ .7H ₂ O b) Al2(SO ₄) ₃ .18 H ₂ O c) Na ₂ O.Al ₂ O ₃ .xSiO ₂ .yH ₂ O d) Na ₂ Al ₂ O ₃	
23. Which bond has the highest bond en	nergy
O2 b) O2+2	c) Q_2^{2-} d) Q_2^{2-}
24. When silicon (Si) is doped with pho	osphorous (P) we get
a) p-type semiconductor	b) n-type semiconductor
c) Insulator	d) Intrinsic semiconductor
25.A pi-bond is formed by sideway or	verlapping of
a) s-s orbitals	b) p-p orbitals
c) s-p orbitals	b) p-p orbitals d) s-p-s orbitals be removed by R.D. Engineziabad R.D. Path Academic in the band of the content of the band of the content of the band of the ba
26. Temporary hardness of water can	be removed by Dean Academic Charlabad Dean Academic Charlabad
a) Boiling	Deangin Cha
b) Filtration	R.J. Du
c) Screening	
d) Sedimentation	Director B.D. Engineering College
27. Suspension of milk is	R.D. Engineering College Duhai, Ghaziabad

a) CaCl ₂	b) Ca(OH) ₂	c) NaCl	d) MgCl ₂			
28. Which of the following is not a Polyamide						
a) Leather	b) Natural rubber		c) Wool	d) Nylon-66		
29. The catalys	st used in the manufact	ure of polyethene	by Ziegler method is			
a) Lithium tetra	achloride and triphenyl	aluminium	(,			
b) Titanium tet	rachloride and trimethy	yl aluminium				
c) Titanium oxide						
d) Titanium isoperoxide						
30. When CH ₃ MgI is made to react with acetone and the addition product is hydrloysed we get						
a) Primary alco	ohol		b) Secondary alcohol	l ·		
c) Tertiary alco	ohol		d) An aldehyde			



	Qualifying Examination	Time: - 2 Hrs
	Admission Year – (2018-19)	
Name of Applicant: - Tushar Father's Name: - Subha	kansal	3 Singering Collins Head Officer
Branch (to be opted):	#	G ASH OF
Note:- Attempt all Questions. Ea	ch question is of 1 mark.	4
1 If the amplitude of a complex number (a) purely imaginary (b) purely real 2 What is the value of factorial Zero (0!)	(c) 0 (d) neither real nor imagin	nary
(a) 10 (b) 0	Con	(d) -1
6. The number of values of x in the interest (a) 4 (b) 6 (c) 1 7. The line $y=mx+c$ intersects the circle (a) 1 (b) 2 (c) 3 (d) 4 8 The line $5x - 2y + 4k = 0$ is a tangent (a) 4/9 (b) 2/3 (c) 9/4 (d) 81/16 9. The center of the circle $4x^2+4y^2-8x+1$	(d) 50400 1,3)} be a relation on the set $A = \{4,3\}$ metric (d) reflexive. $\sin A + 4 \cos B = 6$ and $4 \sin B + 3 \cos B = 6$ (d) 75° rval $[0, 3\pi]$ satisfying the equation 2si (d) 2 $\sin A + \cos B = 6$ and $\sin B + 3 \cos B = 6$ rval $[0, 3\pi]$ satisfying the equation 2si (d) 2 $\sin A + \cos B = 6$ and $\sin B + 3 \cos B = 6$ $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ and $\sin A + 4 \cos B = 6$ and $\sin A + $	$3,2,1$ }. The relation R is $3,2,1$ }. Then the measure of the angle $3,2,1$ $3,2,1$ }. Then the measure of the angle $3,2,1$ $3,2,1$ $4,2$ $4,3$ 4
(a) (1,2) (b) (-1,3/2) (c) (-3/2,1) (d) 10. The line passing through the points (a) a = 2, b = 8 (b) a = 4, b = 6	a = (5, 1, a) and $a = (3, b, 1)$ crosses the yz- a = (6, b) (d) $a = (6, b)$	plane at the point (0, 17/4 -13/2) The

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11. The pair of quantities having the same dimensions is
(a) Displacement, velocity (b) time, frequency (c) Wavelength, focal length (d) force, acceleration
12. Average distance of the Sun from the Earth
(a) light year (b) astronomical unit (c) fermi (d) parsec
13. The number of significant figures in the number 0.0028 is,
(a) 2 (b) 3 (c) 4 (d) 5
14. Which of the following is not the unit of time
(a) second (b) minute (c) month (d) light year
15. If $x = a + bt + ct^2$, where x is in metre and t in second, then what is the unit of 'c'?
(a) m/s (b) m/s ² (c) kgm/s (d) m^2/s
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20. Which of the following is dimensionless
(a) force/acceleration
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(c) volume/area

21.Scale may	be formed	inside t	the boiler	due to d	lecompos	ition of:
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a)	000	TIC	OF	1
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				J 14

- b) MgCO₃
- c) MgCl₂
- d) CaCl₂

22. The chemical formula of zeolite is

- a) FeSO₄.7H₂O
- b) $A12(SO_4)_3.18 H_2O$
- c) Na₂O.Al₂O₃.xSiO₂.yH₂O
- d) Na₂Al₂O₃

23. Which bond has the highest bond energy

- O2
- b) O₂⁺²
- c) O_2^{2-}
- d) 02-

24. When silicon (Si) is doped with phosphorous (P) we get

- a) p-type semiconductor
- b) n-type semiconductor

c) Insulator

d) Intrinsic semiconductor

25.A pi-bond is formed by sideway overlapping of

a) s-s orbitals

c) s-p orbitals

26. Temporary hardness of water can be removed by

a) Boiling

- b) Filtration
- c) Screening
- d) Sedimentation
- 27. Suspension of milk is

R.D. Duhai, Ghaziabad

a) CaCl ₂	b) Ca(OH) ₂	c) NaCl	d) MgCl ₂	
28. Which of the	e following is not a Pol	yamide		
a) Leather	b) Natural rubber	ne iil gomen	c) Wool	d) Nylon-66
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a) Lithium tetrac	chloride and triphenyl a	aluminium		
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a) Primary alcoh	nol		b) Secondary alcohol	
c) Tertiary alcoh	nol		d) An aldehyde	

R.D. Engineering College Duhai, Ghaziabad

a) CaCl₂



	Qualifying Examination	Time: - 2 Hrs
11.12.00	Admission Year – (2018-19)	25
Name of Applicant:jjqwel		seering C
Father's Name:Maguadka 7	yeis'	Han Head Head
Branch (to be opted):		(P) 1/2
Note:- Attempt all Questions. E	each question is of 1 mark.	
1 If the amplitude of a complex numb	per is $\pi/2$ then the number is	
(a) purely imaginary (b) purely re	al (c) 0 (d) neither real nor imaginar	ry
2 What is the value of factorial Zero (0!)	
(a) 10 (b) 0	(c) 1	(d) -1
3 In how many different ways can the come together?	letters of the word 'CORPORATION' be a	arranged so that the vowels always
(a) 810 (b) 1440 (c) 288		61
4 Let $R = \{(3,1), (2,4), (4,2), (3,2)\}$	$(1,3)$ be a relation on the set $A = \{4,3,2\}$	2,1 }. The relation R is
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10. The line passing through the poi (a) $a = 2$, $b = 8$ (b) $a = 4$, $b = 4$	Wat .	er No
	Director R.D. Engineering Condition Chazian	ad

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(a) Displacement, velocity (b) time, frequency (c) Wavelength, focal length (d) force, acceleration
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19. The dimensions of universal gravitational constant is	
(a) $[M^{-1}L^3T^{-2}]$ (b) $[M^1L^1T^{-2}]$ (c) $[M^{-1}L^2T^{-2}]$ (d) $[M^1L^{-1}T^{-1}]$	ST A W
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21.Scale may be formed inside the boiler due to decomposition of:

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a) Boiling	Religing College Dean Academics Engineering College R.D. Engineering Chaziubad R.D. Duhai. Ghaziubad
b) Filtration	K. Du
c) Screening	
d) Sedimentation	Charles College
27. Suspension of milk is	R.D. Engines
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a) CaCl ₂	b) Ca(OH) ₂	c) NaCl		d) MgCl ₂	
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c) Tertiary alcoho	ol		d) An	aldehyde	