

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 2021-22)

Date:- 15-06-2021

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

90% and above will get Concession Rs 10,000.

Dr. Sanjeev Sharma

(Director)

Cc To

1. All HODs

2. Chief Finance Officer

3. Accounts Department

4. IQAC

2.D. Engine and College

R.D. Engineering College

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R.D. Duhai, Ghaziabad

R.D. Duhai, Ghaziabad



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

Session: 2021-22

₹90,000	Total concession Provided:						
10000	60000	1st	ß	Jaidutt Sharma	Harsh Sharma	2102310100041	9
10000	60000	1st	а	Brijesh	Harsh Kumar	2102310100040	00
10000	60000	1st	ß	Manish Mittal	Deepak Mittal	2102310100031	7
10000	60000	1st	ß	Rash Mohan Jha	Ayush Jha	2102310100027	6
10000	60000	1st	ß	Naveen Kumar	Ashish Kumar	2102310100023	5
10000	60000	1st	ß	Vipin Kumar	Ashish Kumar	2102310100024	4
10000	60000	1st	ß	Каріі Туаді	Aryan Tyagi	2102310100021	ω
10000	60000	1st	ß	Roop Kishor Yadav	Aman Yadav	2102310100015	2
10000	60000	15T	ß	Rafeek Mohammad	Altaf	2102310100013	н
CONCESSION PROVIDED (Rs)	TOTAL FEE (Rs)	YEAR	BRANCH	FATHER'S NAME	NAME	ROLL NO	S.NO

Registrar R.D. Engineering College Ghaziabad

Director

R.D. Engineering College

Duhai, Ghaziabad

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R.D. Engineering Chase
Duhai, Ghazimaat





Qualifying Examination

Time: - 2 Hrs

Admission Year – (2021-22)

Name of Applicant: - . Altaf...

Father's Name: - Rafeel Mohammad

Branch (to be opted):- ... C. ...





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

Q1. Value of
$$\frac{1 \sin x}{\log(1+x)}$$
 is

- Jal 1
- (b) 0
- (c) does not exist
- (d) none of these

Q2. If $y^{1/n} = x + \sqrt{1 + x^2}$ then the value of (1+x2)y2+xy1 is

- (b) ny2
- (c)n2y2

(d) none of these

Q3. If $x^{\cos y} + y^{\cos x} = 5$ then at

(a)
$$x=0$$
, $y=0$, $\frac{dy}{dx}=0$ (b) $x=0$, $y=1$, $\frac{dy}{dx}=0$ (c) $x=1$, $y=1$, $\frac{dy}{dx}=-1$ (d) $x=1$, $y=0$,

(b) x=0, y=1,
$$\frac{dy}{dx}$$
 =(

(c)
$$x=1, y=1, \frac{dy}{dx} = -1$$

(d) x=1, y=0,
$$\frac{dy}{dx} = 1$$

Q4. If $\sin(x+y) = \log(x+y)$ then dx is

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

5. The probability that the 13th day of a randomly chosen month is second Saturday is

6. A single latter is chosen random from the word PROBABILITY. The probability that the word is a vowel is

- (a) $\overline{11}$
- (c) $\frac{4}{11}$
- (d) none of these

*								, 4
(a) 2	(b) 3	(c) 4	(d) 5					No.
8. A clock 155° ((is started at n	oon. By 10 m	inutes past	5, the hou	hand has turr	ned throu	gh: (a) 145°	(b) 150° (c
9. In one l water (in		oes 11 km/hr a	along the str	eam and 5	km/hr agains	t the strea	nm. The speed o	of the boat in still
(a) 3 10. Which	(b) 8 n of the follow	(c) 5 ing is stateme		(d) 9		le lit	q	
(a) Mathe	ematics is easy	(b) come he	re (c) all rea	al no are c ithout slip	omplex no. (on ping. The wor	d) he is an	n engineer. y the table surfa	ice on the ball is
(a) Negati	ive (b) Ze	ero (c) P	ositive	(d) None	e of the option	is C		
12.The po	otential energy	of a system i	ncreases if v	work is do	ne			
(a) upon t	he system by	a non-conserv	ative force	(b)	by the system	against a	conservative for	orce
(c) by the	system agains	st a non-conse	ervative force	e (d)	upon the syste	em by a c	onservative force	e v / 10
13.If a lig	tht body and h	eavy body ha	ve same kin	etic energ	y, then which	one has g	greater linear mo	omentum?
(a) Lighte	er body	(b) Heavier be	ody (c)	Both have	e same mome	ntum	(d) Can't be pr	edicted
14.A ligh	t and a heavy	body have eq	ual moment	um. Whic	h one has grea	iter K.E.?		
(a) The li	ghter body	(b) The heav	vier body	(c) Botl	n have equal k	K.E.	(d) Data given	is incomplete
15.Unit o	of energy is						9	
(a) kwh	(b) joule	(c) electr	on volt	(d) All	of the above			
16.Whiel	h of the follow	ing is not a co	onservative	force?				
(a) Gravi	tational force	(b) Fricti	onal force	(c) S	Spring force	(d) N	one of these	
	peed of an obj	ect of mass m	dropped fro	om an incl	ined plane (fr	rictionless	s), at the bottom	of the
(a) heigh	nt of the plane	above the gro	ound	(b) angle	of inclination	of the pla	ane	
(c) mass	of the object			(d) All of	these			
18.A boo	dy projected v ver exerted by	ertically from the gravitatio	the earth renal force is	eaches a he greatest	eight equal to	earth's ra	dius before retu	rning to the earth
(a) at the	e instant just b	efore the bod	y hits the ea	irth	(b) at the high	hest posit	ion of the body	
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by the boat to go 68 km downstream.

(c) it remains constant all through	(d) at the instant just after the body is projected.	
19.If two particles are brought near of	ne another, the potential energy of the system will	
(a) increase (b)decrease	(c) remains the same (d) equal to the K.E.	
20. When two spheres of equal masses they will move	s undergo perfect inelastic collision with one of them at rest, after collisio	n
(a) opposite to one another (b)	n the same direction (c) together (d) at right angle to each other	er
21. What is the term for a liquid disp a) Emulsion	b) Aerosol	
c) Gel	d) Foam	
	on can occur in a complex with geometry.	
a) tetrahedral	(b) octahedral	
c) trigonal bipyramidal	d) square planar	
23. Determine the proper name for I		
 a) Potassium tetrachlorinepalladium 	(II)	
b) Potassium tetrachloridopalladate(5	
 c) Potassium tetrachloridopalladium 	(II)	
d) tetrachlorinepalladate(II)		
	mine the hardness of water using a simple titration?	
a) Mg(EDTA)	b) Fe(EDTA)	
c) Na2(EDTA)	d) Co(EDTA)	
	sllowing biologically significant coordination molecules is magnesium?	
a) Vitamin B12	b) Haemoglobin	
c) Chlorophyll	d) Carboxypeptidase-A	
26. What form does nitrogen take in		
a) Ammonia	b) Amide d) Nitrite	
c) Nitrate	ns in p-block elements when we move from left to right in the same perio	od?
a) Size does not change	b) Size increases then decreases	
c) Size increases	d) Size decreases	
	orm nitric acid, what catalyst is used?	
a) Platinum-Rhodium gauze	b) Vanadium (V) oxide	
c) Palladium hydride	d) Sodium amalgam	
29. Which of the following compound	nds has an oxidation state of +5 phosphorus?	
a) Peroxodiphosphoric acid	b) Hypophosphorous acid	
c) Orthophosphorous acid	d) Hypophosphoric acid	
30. Why is nitrogen preferred in th	welding and cooling of materials?	
a) It is an inert gas	b) It is non-toxic	
c) It's a gas and can easily be hand	ed d) It has an extremely low freezing point	
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	d) It has an extremely low freezing point Dean Academics R.D. Engineering Colle R.D. Engineering Colle Duhai, Ghaziabad	
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	R.D. Engineering Duhai, Ghaziabad	
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Qualifying Examination

Time: - 2 Hrs

Admission Year - (2021-22)

Name of Applicant: - .. Mansh Showma

Father's Name: - ... Jaidunt sharma

Branch (to be opted):-C.S...



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

Q1. Value of
$$\xrightarrow{\lim} 0 \frac{\tan x}{\log(1+x)}$$
 is

- (a)/1
- (b) 0
- (c) does not exist
- (d) none of these

Q2. If
$$y^{1/n} = x + \sqrt{1 + x^2}$$
 then the value of $(1+x2)y2+xy1$ is

- (b) ny2
- (c)n2y2

(d) none of these

Q3. If
$$x^{\cos y} + y^{\cos x} = 5$$
 then at

(a)
$$x=0, y=0, \frac{dy}{dx}=0$$
 (b) $x=0, y=1, \frac{dy}{dx}=0$ (c) $x=1, y=1, \frac{dy}{dx}=1$ (d) $x=1, y=0, \frac{dy}{dx}=1$

(b)
$$x=0, y=1, \frac{dy}{dx}=0$$

(c)
$$x=1, y=1, \frac{dy}{dx}=-1$$

(d) x=1, y=0,
$$\frac{dy}{dx} = 1$$

Q4. If
$$\sin(x+y) = \log(x+y)$$
 then $\frac{dy}{dx}$ is

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

5. The probability that the 13th day of a randomly chosen month is second Saturday is

6. A single latter is chosen random from the word PROBABILITY. The probability that the word is a vowel is

- (c) $\frac{4}{11}$
- none of these

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by the boat to go 68 km downstream.
(a) 2 (b) 3 (c) 4 (d) 5 8. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through: (a) 145° (b) 150° (c) 155° (d) 160°
9. In one hour, a boat goes 11 km/hr along the stream and 5 km/hr against the stream. The speed of the boat in still water (in km/hr) is: (a) 3 (b) 8 (c) 5 (d) 9 10. Which of the following is statement –
(a) Mathematics is easy (b) come here (c) all real no are complex no. (d) he is an engineer. 11.A ball moves in a frictionless inclined table without slipping. The work done by the table surface on the ball is
(a) Negative (b) Zero (c) Positive (d) None of the options
12. The potential energy of a system increases if work is done
(a) upon the system by a non-conservative force (b) by the system against a conservative force
(c) by the system against a non-conservative force (d) upon the system by a conservative force
13.If a light body and heavy body have same kinetic energy, then which one has greater linear momentum?
(a) Lighter body (b) Heavier body (c) Both have same momentum (d) Can't be predicted
14.A light and a heavy body have equal momentum. Which one has greater K.E.?
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15.Unit of energy is
(a) kwh (b) joule (c) electron volt (d) All of the above
16. Which of the following is not a conservative force?
(a) Gravitational force (b) Frictional force (c) Spring force (d) None of these
17. The speed of an object of mass m dropped from an inclined plane (frictionless), at the bottom of the plane, depends on:
(a) height of the plane above the ground (b) angle of inclination of the plane
(c) mass of the object (d) All of these
18.A body projected vertically from the earth reaches a height equal to earth's radius before returning to the earth. The power exerted by the gravitational force is greatest
(a) at the instant just before the body hits the earth (b) at the highest position of the body

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Y	(c) it remains constant all through (d) at the instant just after the body is projected.
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,	(a) increase (b) decrease (c) remains the same (d) equal to the K.E.
	20. When two spheres of equal masses undergo perfect inelastic collision with one of them at rest, after collision they will move
	(a) opposite to one another (b) in the same direction (c) together (d) at right angle to each other
	21. What is the term for a liquid dispersion in another liquid? a) Emulsion b) Aerosol c) Gel d) Foam 22. More than one sort of hybridization can occur in a complex with geometry. a) tetrahedral b) octahedral c) trigonal bipyramidal d) square planar 23. Determine the proper name for K2[PdCl4]. a) Potassium tetrachlorinepalladium(II) b) Potassium tetrachloridopalladate(II)Potassium c) Potassium tetrachloridopalladium(II) d) tetrachlorinepalladate(II) 24. Which substance is used to determine the hardness of water using a simple titration? a) Mg(EDTA) b) Fe(EDTA) c) Na2(EDTA) d) Co(EDTA) 25. The core atom of which of the following biologically significant coordination molecules is magnesium? a) Vitamin B12 b) Haemoglobin
	c) Chlorophyll d) Carboxypeptidase-A
)	26. What form does nitrogen take in plants? a) Ammonia b) Amide c) Nitrate d) Nitrite 27. What happens to the size of atoms in p-block elements when we move from left to right in the same period a) Size does not change b) Size increases then decreases c) Size increases 28. When ammonia is oxidized to form nitric acid, what catalyst is used? a) Platinum-Rhodium gauze b) Vanadium (V) oxide c) Palladium hydride d) Sodium amalgam 29. Which of the following compounds has an oxidation state of +5 phosphorus? a) Peroxodiphosphoric acid b) Hypophosphoric acid d) Hypophosphoric acid 30. Why is nitrogen preferred in the welding and cooling of materials? a) It is an inert gas
	c) Orthophosphorous acid 30. Why is nitrogen preferred in the welding and cooling of materials? a) It is an inert gas c) It's a gas and can easily be handled b) Hypophosphoric acid 30. Why is nitrogen preferred in the welding and cooling of materials? b) It is non-toxic c) It's a gas and can easily be handled c) Hypophosphoric acid d) Hypophosphoric acid a) It is non-toxic c) It's a gas and can easily be handled Dean Academics Dean Academics Duhai, Ghaziabad Duhai, Ghaziabad Duhai, Ghaziabad

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Qualifying Examination

Time: - 2 Hrs

Admission Year – (2021-22)

Name of Applicant: Harch Kunn

Father's Name: - British...

Branch (to be opted):-





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

Q1. Value of
$$\xrightarrow{\lim} 0 \frac{\tan x}{\log(1+x)}$$
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- (a) 1
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Q2. If
$$y^{1/n} = x + \sqrt{1 + x^2}$$
 then the value of $(1+x^2)y^2 + xy^1$ is

- (a) n2y
- (b) ny2
- (c)n2y2
- (d) none of these

Q3. If
$$x^{\cos y} + y^{\cos x} = 5$$
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(a)
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Dean Academics R.D. Engineering College Duhai, Ghaziabad

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	8. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through: (a) 145° (b) 150° (c) 155° (d) 160°
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	18.A body projected vertically from the earth reaches a height equal to earth's radius before returning to the earth. The power exerted by the gravitational force is greatest
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21. What is the term for a liquid dispersion in another liquid?
a) Emulsion b) Aerosol
c) Gel d) Foam
22. More than one sort of hybridization can occur in a complex with geometry.
a) tetrahedral b) octahedral
c) trigonal bipyramidal d) square planar
23. Determine the proper name for K2[PdCl4].
a) Potassium tetrachlorinepalladium(II)
b) Potassium tetrachloridopalladate(II) Potassium
c) Potassium tetrachloridopalladium(II)
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a) Mg(EDTA) b) Fe(EDTA)
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Qualifying Examination

Time: - 2 Hrs

Admission Year -(2021-22)

Name of Applicant: - Hyush Iha

Father's Name: - Mr. Rash Mohan Ily

Branch (to be opted):-



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

Q1. Value of
$$\frac{-\lim_{\lim \to 0} \frac{\tan x}{\log(1+x)}}{\log (1+x)}$$
 is

- (b) 0
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 then the value of $(1+x2)y2+xy1$ is

- (b) ny2

(d) none of these

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(a)
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 (b) $x=0, y=1, \frac{dy}{dx}=0$ (c) $x=1, y=1, \frac{dy}{dx}=-1$ (d) $x=1, y=0,$

(b) x=0, y=1,
$$\frac{dy}{dx} = 0$$

(c)
$$x=1, y=1, \frac{dy}{dx}=-1$$

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- (a)2
- (b)-2
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- (a) 11

- (d) none of the

Dean Academics R.D. Engineering College Duhai, Ghaziabad



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	8. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through: (a) 145° (b) 150° (c) 155° (d) 160°
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	16. Which of the following is not a conservative force?
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	17. The speed of an object of mass m dropped from an inclined plane (frictionless), at the bottom of the plane, depends on:
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	c) Palladium hydride 29. Which of the following compounds has an oxidation state of +5 phosphorus? a) Peroxodiphosphoric acid b) Hypophosphorous acid c) Orthophosphorous acid d) Hypophosphoric acid
1	30. Why is nitrogen preferred in the welding and cooling of materials? a) It is an inert gas b) It is non-toxic c) It's a gas and can easily be handled d) It has an extremely low freezing point
	c) It's a gas and can easily be handled d) It has an extremely low freezing point Bean Academica College Duhai, Ghaziabad
	Director College R.D. Engineering abad R.D. La Chaziabad Duhai, Ghaziabad

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Qualifying Examination

Time: - 2 Hrs

Admission Year - (2021-22)

Name of Applicant: Deelaking Hal

Father's Name: - Marish myttal

Branch (to be opted):-C.S...



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

Q1. Value of
$$\xrightarrow{\lim} 0 \frac{\tan x}{\log(1+x)}$$
 is

- (a) 1
- (b) 0
- (c) does not exist
- (d) none of these

Q2. If
$$y^{1/n} = x + \sqrt{1 + x^2}$$
 then the value of $(1+x2)y2+xy1$ is

- (b) ny2
- (c)n2y2
- (d) none of these

O3. If
$$x^{\cos y} + y^{\cos x} = 5$$
 then at

(a)
$$x=0, y=0, \frac{dy}{dx}=0$$
 (b) $x=0, y=1, \frac{dy}{dx}=0$ (c) $x=1, y=1, \frac{dy}{dx}=-1$ (d) $x=1, y=0,$

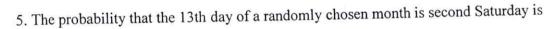
(b) x=0, y=1,
$$\frac{dy}{dx} = 0$$

(c)
$$x=1$$
, $y=1$, $\frac{dy}{dx} = -1$

(d) x=1, y=0,
$$\frac{dy}{dx} = 1$$

Q4. If
$$\sin(x+y) = \log(x+y)$$
 then $\frac{dy}{dx}$ is

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



6. A single latter is chosen random from the word PROBABILITY. The probability that the word is a vowel is

- (a) $\frac{1}{11}$

- (d) none of these

R.D. Engineering College Duhai, Ghaziabad

by the boat to go 68 km downstream.
(a) 2 (b) 3 (e) 4 (d) 5
8. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through: (a) 145° (b) 150° (c) 155° (d) 160°
9. In one hour, a boat goes 11 km/hr along the stream and 5 km/hr against the stream. The speed of the boat in still water (in km/hr) is:
(a) 3 (b) 8 (c) 5 (d) 9
10. Which of the following is statement – (a) Mathematics is easy (b) come here (c) all real no are complex no. (d) he is an engineer. 11.A ball moves in a frictionless inclined table without slipping. The work done by the table surface on the ball is
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12. The potential energy of a system increases if work is done
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13.If a light body and heavy body have same kinetic energy, then which one has greater linear momentum?
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14.A light and a heavy body have equal momentum. Which one has greater K.E.?
(a) The lighter body (b) The heavier body (c) Both have equal K.E. (d) Data given is incomplete
15.Unit of energy is
(a) kwh (b) joule (c) electron volt (d) All of the above
16. Which of the following is not a conservative force?
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17. The speed of an object of mass m dropped from an inclined plane (frictionless), at the bottom of the plane, depends on:
(a) height of the plane above the ground (b) angle of inclination of the plane
(c) mass of the object (d) All of these
18.A body projected vertically from the earth reaches a height equal to earth's radius before returning to the earth. The power exerted by the gravitational force is greatest
(a) at the instant just before the body hits the earth (b) at the highest position of the body

Ac V	(c) it remains constant all through (d) at the instant just after the body is projected.
2	(4) at the instant gust area area area area area area area are
	19.If two particles are brought near one another, the potential energy of the system will
	(a) increase (b) decrease (c) remains the same (d) equal to the K.E.
	20. When two spheres of equal masses undergo perfect inelastic collision with one of them at rest, after collision they will move
	(a) opposite to one another (b) in the same direction (c) together (d) at right angle to each other
	21. What is the term for a liquid dispersion in another liquid? a) Emulsion b) Aerosol c) Gel d) Foam 22. More than one sort of hybridization can occur in a complex with geometry. a) tetrahedral c) trigonal bipyramidal d) square planar 23. Determine the proper name for K2[PdCl4]. a) Potassium tetrachlorinepalladium(II) b) Potassium tetrachloridopalladate(II)Potassium c) Potassium tetrachloridopalladate(II) d) tetrachlorinepalladate(II) 24. Which substance is used to determine the hardness of water using a simple titration? a) Mg(EDTA) b) Fe(EDTA) c) Na2(EDTA) d) Co(EDTA) 25. The core atom of which of the following biologically significant coordination molecules is magnesium? a) Vitamin B12 b) Haemoglobin c) Chlorophyll d) Carboxypeptidase-A
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ē.	Director R.D. Engineering College R.D. Haziabad

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Qualifying Examination

Time: - 2 Hrs

Admission Year – (2021-22)

Name of Applicant: - Ashish kumovi

Father's Name: - . Naveen. Kumos.

Branch (to be opted):-C.S...



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

Q1. Value of
$$\frac{-\lim_{\lim \to 0} \frac{\tan x}{\log(1+x)}}{\log x}$$
 is

- (a)/1
- (b) 0
- (c) does not exist
- (d) none of these

Q2. If
$$y^{1/n} = x + \sqrt{1 + x^2}$$
 then the value of $(1+x^2)y^2 + xy^1$ is

- (b) ny2
- (c)n2y2
- (d) none of these

Q3. If
$$x^{\cos y} + y^{\cos x} = 5$$
 then at

(a)
$$x=0, y=0, \frac{dy}{dx}=0$$
 (b) $x=0, y=1, \frac{dy}{dx}=0$ (c) $x=1, y=1, \frac{dy}{dx}=-1$ (d) $x=1, y=0, \frac{dy}{dx}=1$

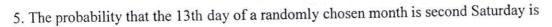
(b)
$$x=0, y=1, \frac{dy}{dx}=0$$

$$(c)'x=1, y=1, \frac{dy}{dx}=-$$

(d) x=1, y=0,
$$\frac{dy}{dx} = 1$$

Q4. If
$$\sin(x+y) = \log(x+y)$$
 then $\frac{dy}{dx}$ is

- (a)2
- (b)-2
- (c)1



6. A single latter is chosen random from the word PROBABILITY. The probability that the word is a yowel is get a single latter is chosen random from the word PROBABILITY. The probability that the word is a yowel is get a single latter is chosen random from the word PROBABILITY. The probability that the word is a yowel is get a single latter is chosen random from the word PROBABILITY. The probability that the word is a yowel is get a single latter is chosen random from the word PROBABILITY. The probability that the word is a yowel is get a single latter is chosen random from the word PROBABILITY. The probability that the word is a yowel is get a single latter is chosen random from the word PROBABILITY. The probability that the word is a yowel is get a single latter is chosen random from the word PROBABILITY. The probability that the word is a yowel is get a single latter is chosen random from the word PROBABILITY. The probability that the word is a young latter is chosen random from the word PROBABILITY. The probability that the word is a young latter is chosen random from the word PROBABILITY. The probability that the word is a young latter is chosen random from the word PROBABILITY. The probability that the word is a young latter is chosen random from the word is a young latter is chosen random from the word is a young latter is chosen random from the word is a young latter is chosen random from the word is a young latter is chosen random from the word is a young latter is chosen random from the word is a young latter is chosen random from the word is a young latter is chosen random from the word is a young latter is a yo

- (d) none of these

R.D. Engineering College College Chaziabad

by the boat to go 68 km downstream.
(a) 2 (b) 3 (c) 4 (d) 5 8. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through: (a) 145° (b) 150° (c)
155° (a) 160° (b) 160° (c)
9. In one hour, a boat goes 11 km/hr along the stream and 5 km/hr against the stream. The speed of the boat in still
water (in km/hr) is: (a) 3 (b) 8 (c) 5 (d) 9
10. Which of the following is statement –
(a) Mathematics is easy (b) come here (c) all real no are complex no. (d) he is an engineer. 11.A ball moves in a frictionless inclined table without slipping. The work done by the table surface on the ball is
(a) Negative (b) Zero (c) Positive (d) None of the options
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	(c) it remains constant all through (d	at the instant just after the body is projected.
	19.If two particles are brought near one another, the potent	al energy of the system will
	(a) increase (b) decrease (c) remains the same	e (d) equal to the K.E.
	20. When two spheres of equal masses undergo perfect inel they will move	astic collision with one of them at rest, after collision
	(a) opposite to one another (b) in the same direction	(c) together (d) at right angle to each other
	21. What is the term for a liquid dispersion in another liqui	d?
	a) Emulsion b) Ae	rosol
_	c) Gel d) Fo	
	22. More than one sort of hybridization can occur in a com	
	a) tetrahedral b) octa	
		re planar
		le planar
	23. Determine the proper name for K2[PdCl4].	
	a) Potassium tetrachlorinepalladium(II)	
	b) Potassium tetrachloridopalladate(II)Potassium	
	c) Potassium tetrachloridopalladium(II)	
	d) tetrachlorinepalladate(II)	,
	24. Which substance is used to determine the hardness of	water using a simple titration?
	a) Mg(EDTA) b) 1	Fe(EDTA)
	,	Co(EDTA)
-	25. The core atom of which of the following biologically s	
		Haemoglobin
		Carboxypeptidase-A
	26. What form does nitrogen take in plants?	Carbox ypeptidase 11
		A: do
		Amide
		Nitrite
	27. What happens to the size of atoms in p-block elements	
		ize increases then decreases
		ize decreases
	28. When ammonia is oxidized to form nitric acid, what c	atalyst is used?
		anadium (V) oxide
-	c) Palladium hydride d) So	odium amalgam
	29. Which of the following compounds has an oxidation s	state of +5 phosphorus?
	a) Peroxodiphosphoric acid b) Hy	pophosphorous acid
,		
	30. Why is nitrogen preferred in the welding and cooling	
		s non-toxic
	5	is an extremely low freezing point
	c) It's a gas and can easily be handled d) It has	S differentiation of the sale

Director R.D. Engineering College Duhai, Ghazlabad le ramuse 15



Qualifying Examination

Admission Year - (2021-22)

Name of Applicant: - Akyan. Tyagi

Father's Name: - Kapi! Tyayi

Branch (to be opted):-



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

Q1. Value of
$$\frac{-\lim_{\lim} 0 \frac{\tan x}{\log(1+x)}}{\log}$$
 is

- (b) 0 (a) 1
- (c) does not exist
- (d) none of these
- Q2. If $y^{1/n} = x + \sqrt{1 + x^2}$ then the value of $(1+x^2)y^2 + xy^1$ is
- (a) n2y
- (c)n2y2
- (d) none of these

Q3. If
$$x^{\cos y} + y^{\cos x} = 5$$
 then at

(a)
$$x=0, y=0, \frac{dy}{dx}=0$$
 (b) $x=0, y=1, \frac{dy}{dx}=0$ (c) $x=1, y=1, \frac{dy}{dx}=-1$ (d) $x=1, y=0, \frac{dy}{dx}=1$

(b)
$$x=0, y=1, \frac{dy}{dx}=0$$

(c)
$$x=1, y=1, \frac{dy}{dx} = -$$

(d) x=1, y=0,
$$\frac{dy}{dx}$$
 =

Q4. If
$$\sin(x+y) = \log(x+y)$$
 then $\frac{dy}{dx}$ is

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

5. The probability that the 13th day of a randomly chosen month is second Saturday is

The probability that the word is a vowellis 6. A single latter is chosen random from the word PROBABILITY

- (d) none of these

(a) 2 (b) 3 (c) 4 (d) 5
8. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through: (a) 145° (b) 150° (d) 150°
(4)
9. In one hour, a boat goes 11 km/hr along the stream and 5 km/hr against the stream. The speed of the boat in still water (in km/hr) is:
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10. Which of the following is statement –
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by the boat to go 68 km downstream.

	(c) it remains constant all through (d) at the instant just after the body is projected.
	19.If two particles are brought near one another, the potential energy of the system will
	(a) increase (b) decrease (c) remains the same (d) equal to the K.E.
	20. When two spheres of equal masses undergo perfect inelastic collision with one of them at rest, after collision they will move
	(a) opposite to one another (b) in the same direction (c) together (d) at right angle to each other
•	21. What is the term for a liquid dispersion in another liquid? a) Emulsion b) Aerosol c) Gel d) Foam 22. More than one sort of hybridization can occur in a complex with geometry.
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Director College
R.D. Engineering Charles



Qualifying Examination

Admission Year - (2021-22)

Name of Applicant: - Aman

Father's Name: - Roop Lisher Yadar

Branch (to be opted):-





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

Q1. Value of

- Ja) I
- (b) 0
- (c) does not exist
- (d) none of these

O2. If $y^{1/n} = x + \sqrt{1 + x^2}$ then the value of $(1+x^2)y^2 + xy^1$ is

- (a) n2y
- (b) ny2
- (c)n2y2
- (d) none of these

O3. If $x^{\cos y} + y^{\cos x} = 5$ then at

(a) x=0, y=0, $\frac{dy}{dx}=0$ (b) x=0, y=1, $\frac{dy}{dx}=0$ (c) x=1, y=1, $\frac{dy}{dx}=-1$

Q4. If $\sin(x+y) = \log(x+y)$ then dx is

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

5. The probability that the 13th day of a randomly chosen month is second Saturday is

- 6. A single latter is chosen random from the word PROBABILITY. The probability that the word is a vowel is

- (d) none of these



by the boat to go 68 km downstream.
(a) 2 (b) 3 (c) 4 (d) 5
8. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through: (a) 145° (b) 150° (c)
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c) It's a gas and can easily be handled d) It has an extremely low freezing point R.D. Duhai.	
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Director College
R.D. Engineering
Ghaziana

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Qualifying Examination

Admission Year – (2021-22)

Name of Applicant: - Ashish tumar

Father's Name: - Whin Keiman

Branch (to be opted):-



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

Q1. Value of
$$\frac{\lim_{\text{lim}} 0 \frac{\tan x}{\log(1+x)}}{\log(1+x)}$$
 is

- (b) 0
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Q2. If
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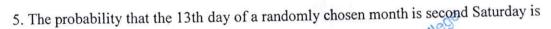
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(c)
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, $y=1$, $\frac{dy}{dx}=-1$

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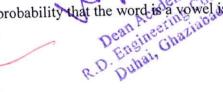
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- (d)-1



6. A single latter is chosen random from the word PROBABILITY. The probability that the word is a yowel is

(a) $\frac{2}{11}$ (b) $\frac{3}{11}$ (c) $\frac{4}{11}$ (d) $\frac{4}{11}$ (e) $\frac{1}{11}$ (f) $\frac{2}{11}$ (f



	by the boat to go 68 km downstream.
	(a) 2 (b) 3 (c) 4 (d) 5
	8. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through: (a) 145° (b) 150° (c) 155° (d) 160°
	9. In one hour, a boat goes 11 km/hr along the stream and 5 km/hr against the stream. The speed of the boat in still
	water (in km/hr) is:
	(a) 3 (b) 8 (c) 5 (d) 9 10. Which of the following is statement –
	(a) Mathematics is easy (b) come here (c) all real no are complex no. (d) he is an engineer. 11.A ball moves in a frictionless inclined table without slipping. The work done by the table surface on the ball is
	(a) Negative (b) Zero (c) Positive (d) None of the options
	12. The potential energy of a system increases if work is done
	(a) upon the system by a non-conservative force (b) by the system against a conservative force
	(c) by the system against a non-conservative force (d) upon the system by a conservative force
	13.If a light body and heavy body have same kinetic energy, then which one has greater linear momentum?
	(a) Lighter body (b) Heavier body (c) Both have same momentum (d) Can't be predicted
	14.A light and a heavy body have equal momentum. Which one has greater K.E.?
1	(a) The lighter body (b) The heavier body (c) Both have equal K.E. (d) Data given is incomplete
	15.Unit of energy is
	(a) kwh (b) joule (c) electron volt (d) All of the above
	16. Which of the following is not a conservative force?
	(a) Gravitational force (b) Frictional force (c) Spring force (d) None of these
	17. The speed of an object of mass m dropped from an inclined plane (frictionless), at the bottom of the plane, depends on:
1	(a) height of the plane above the ground (b) angle of inclination of the plane
	(c) mass of the object (d) All of these
	18.A body projected vertically from the earth reaches a height equal to earth's radius before returning to the earth. The power exerted by the gravitational force is greatest
	(a) at the instant just before the body hits the earth (b) at the highest position of the body

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(c) it remains constant all through (d) at the instant just after the body is projected.	
19.If two particles are brought near one another, the potential energy of the system will	
(a) increase (b) decrease (c) remains the same (d) equal to the K.E.	
20. When two spheres of equal masses undergo perfect inelastic collision with one of them at rest, after collision they will move	
(a) opposite to one another (b) in the same direction (c) together (d) at right angle to each other	
21. What is the term for a liquid dispersion in another liquid?	
a) Emulsion b) Aerosol	
c) Gel d) Foam	
22. More than one sort of hybridization can occur in a complex with geometry.	
a) tetrahedral b) octahedral	7
c) trigonal bipyramidal d) square planar	
23. Determine the proper name for K2[PdCl4].	
a) Potassium tetrachlorinepalladium(II)	
b) Potassium tetrachloridopalladate(II)Potassium	
c) Potassium tetrachloridopalladium(II)	
d) tetrachlorinepalladate(II)	
24. Which substance is used to determine the hardness of water using a simple titration?	
c) Na2(EDTA) d) Co(EDTA) d) Co(EDTA)	
25. The core atom of which of the following biologically significant coordination molecules is magnesium?	
a) Vitamin B12 b) Haemoglobin	
c) Chlorophyll d) Carboxypeptidase-A	
26. What form does nitrogen take in plants?	
a) Ammonia b) Amide	
c) Nitrate d) Nitrite	
27. What happens to the size of atoms in p-block elements when we move from left to right in the same period?	
a) Size does not change b) Size increases then decreases	
c) Size increases d) Size decreases	
28. When ammonia is oxidized to form nitric acid, what catalyst is used?	
a) Platinum-Rhodium gauze b) Vanadium (V) oxide	
c) Palladium hydride d) Sodium amalgam	
29. Which of the following compounds has an oxidation state of +5 phosphorus?	
b) Hypophorous acid	
c) Orthophosphorous acid d) Hypophosphoric acid 30. Why is nitrogen preferred in the welding and cooling of materials?	
30. Why is nitrogen preferred in the welding and cooling of materials?	
a) It is an inert gas b) It is non-toxic.	
c) It's a gas and can easily be handled d) It has an extremely low freezing point	
c) it's a gas and can easily be nanded	
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30. Why is nitrogen preferred in the welding and cooling of materials? a) It is an inert gas b) It is non-toxic d) It has an extremely low freezing point Dean Accepting to the property of the property o	
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