

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 2022-23)

Date:- 12-05-2022

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 15,000.

Dr. Sanjeev Sharma

(Director)

Cc To

1. All HODs

2. Chief Finance Officer

3. Accounts Department

4. IQAC

R.D. Engineeding College

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R.D. Engineering College
Duhai, Ghazinbad

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

Session: 2022-23

S.NO	ROLL NO	NAME	FATHER'S NAME	BRANCH	YEAR	TOTAL FEE (Rs)	CONCESSION PROVIDED (Rs)
1	2202310100102	Tania	Pradeep Kumar	cs	1st	55000	15000
2	2202310100112	Vanishka Aggarwal	Arun Kumar	cs	1st	55000	15000
3	2202311540003	Aman Kumar	Ranvir Singh	CS-DS	1st	55000	15000
4	2202311550006	Ankur	Narender	CS-IOT	1st	55000	15000
5	2202311530046	Mohd. Adnan	Mohammad Umar	CS-AIML	1st	55000	15000
6	2202310130033	Muriy	Inderpal Singh	ir	1st	55000	15000
7	2202310130038	Rishi Mishra	Ranjeet Mishra	іт	1st	55000	15000

Total concession Provided :

₹ 105,000

Registrar R.D. Engineering College Ghaziabad Head O ASH

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Qualifying Examination

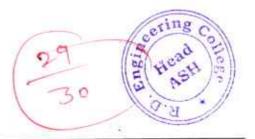
Time: - 2 Hrs

Admission Year - (2022-23)

Name of Applicant: - Aman Kura

Father's Name: - My Ray Vir Singh

Branch (to be opted):- ... C5-... 15



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

1. If the 5th term of an arithmetric progression is 17 and the 9th term is 37. What is the 1st term?

(a) -6 (b) -3 (c) 0 (d) 3

2. A die is thrown. Let A be the event that the number obtained is greater than 3. Let B be the event that the number obtained is less than 5. Then P (A \cup B) is

- (b) 0
- 4c) 1
- 3.If $\cos x + \sin x = a$ then the value of $\cos 2x$ is

(a) a

- (b) $a^{\sqrt{2-a}}$ (c) $a^{\sqrt{2+a}}$ (d) a^2-1

4.If $(1+\sqrt{1+x})$ tan $x = 1+\sqrt{1+x}$ then $\sin 4x =$

- (a) 4x
- (b) 2x
- (d) none of these

5. For the real value of $\cos \theta = x + \frac{1}{x}$ then

- (a) θ is acute angle (b) θ is obtuse angle (c) right angle (d) none of these

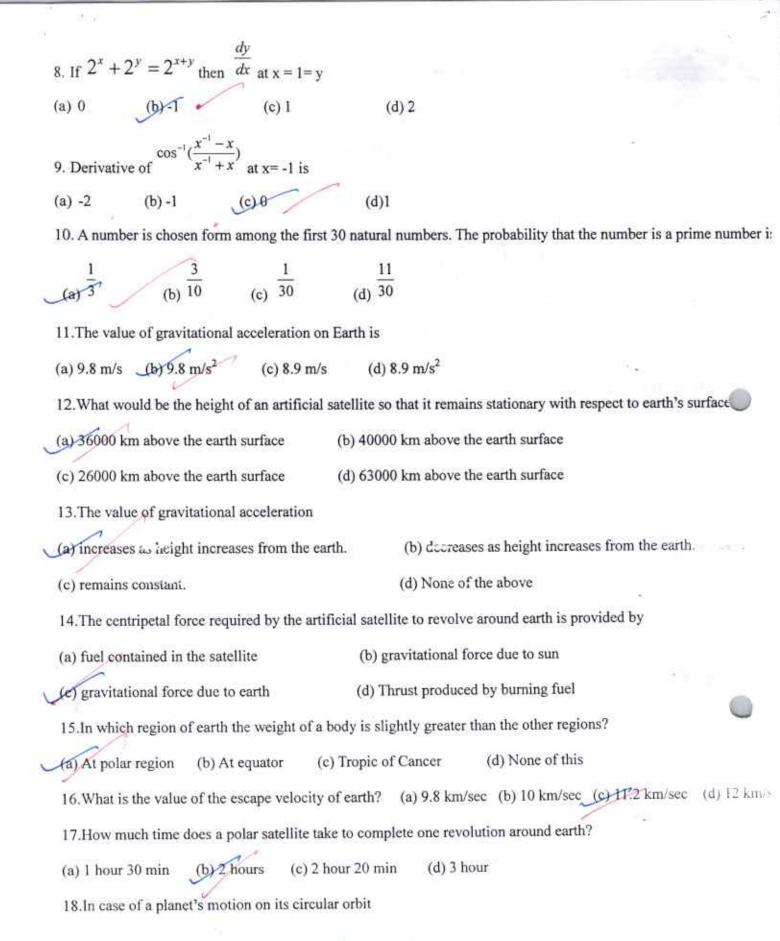
6. If $\tan \alpha = \frac{1}{7}$, $\tan \beta = \frac{1}{3}$, then $\cos 2\alpha = \frac{1}{3}$

- (a) $\sin 2^{\beta}$ (b) $\sin 4^{\beta}$ (c) $\sin 4^{\beta}$ (d) $\cos 2^{\beta}$

Engineering College Duhal, Ghaziabad

- $2018 \int_{0}^{1} \frac{e^{\cos \pi x}}{e^{\cos \pi x} + e^{-\cos \pi x}} dx$ is 7. The value of

- (a) 1008 (b) 1009 (c) 2017 (d) 2000



(a) its v	elocity remains constant in	its orbit (b) its	angular velocity remains con	nstant
(c) its to	otal angular momentum re	mains constant. (d) rac	dius of orbit remains constant	Me of the least of the
3 C-34 (1) C-3 (1) C-3 (1)			or or or or remains constant	
19.If the	e radius of earth is decreas	ed keeping its mass o	onstant, then the length of day	y will
(a) decr	rease (b) Increase (c)	remain same (d)	cannot say	
20.If the	e earth would stop rotating	then the weight of ar	a object on north pole will	
(a) incre	A 152 15	1	N (31)	
(a) mere	tase (b) decrease	(c) remain same	(d) be zero	
	ducer gas is defined as wh	ich of the following m	nixtures?	
a) carbo	on dioxide and hydrogen	b) car	rbon monoxide and hydrogen	
c) carbo	on monoxide and nitrogen	d) car	rbon dioxide and nitrogen	
	en two perfect solutions w		e combined, What is the volur	me of the solution as a result?
_a) ∇	######################################		2V	
12 Page 12 Pag	ter than 2V		Less than 2V	190
	heat of solution or mixing			
The Control of the Control	of solution		Heat of dissolution	
C. C	of reaction		Heat of mixing	2 TE 147
		ous components in wh	nich each component's proper	ty is the weighted sum of its s
	ies. The answer is	**		
	Solution) Non-Ideal solution	
	Solution) None of the mentioned	
	at is an example of camph		NAME AND ADDRESS OF THE PARTY O	
The second secon	in gas solution		b) Gas in gas solution	
the second secon	d in liquid solution		d) Liquid in gas solution	
	at makes a solution?	200	anners established the same	
The second secon	te and solvent) Solute and solute	
	ent and solvent		None of the above	
			JH4 and an alkyl halide react	ion?
a) Halo		540) Alkyl nitrite	
c) Nitro) Hydrocarbon	
	nich of the following stater	nents about SN2 mech	hanisms is incorrect?	
	transition state is stable			
	complete mechanism take			0
	rate of the reaction depend		n of both reactants	· · /
	re is an inversion of config			b
	nat is 3-Bromopropene's co	ommon name?	11.49	· NP
	l bromide		b) Vinyl bromide	demic ollege
c) Tert-	-Butyl bromide		d) Propylidene bromide	Acading Coad
30. Wh	at is the catalyst in the ch	loroalkane reaction of	f a primary alcohol with HCl	Dealtheethaziabe
	phosphorous		b) concentrated H2SO4	C. Engli Gir
c) anhy	ydrous ZnCl2		d) pyridine	K.D. Dulla
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R.D. Engineering College

Director College
R.D. Engineering

20.27



Qualifying Examination

Time: - 2 Hrs

Admission Year – (2022-23)

Name of Applicant: - . M. W. W. Ly

Father's Name: - Wdexpal Singh

Branch (to be opted):-



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

1. If the 5th term of an arithmetric progression is 17 and the 9th term is 37. What is the 1st term?

(a) -6 (b) -3 (c) 0 (d) 3

2. A die is thrown. Let A be the event that the number obtained is greater than 3. Let B be the event that the number obtained is less than 5. Then P (A U B) is

(b)0

(c) 1

3.If $\cos x + \sin x = a$ then the value of $\cos 2x$ is

(b) $a^{\sqrt{2-a}}$ (c) $a^{\sqrt{2+a}}$ (d) a^2-1

4.If $(1+\sqrt{1+x})$ tan $x = 1+\sqrt{1+x}$ then $\sin 4x =$

(a) 4x

(b) 2x

(c)x

(d) none of these

5. For the real value of $\cos \theta = x + \frac{1}{x}$ then

- (a) θ is acute angle (b) θ is obtuse angle (c) right angle

- (d) none of these

 $\alpha = \frac{1}{7}$, $\beta = \frac{1}{3}$, then $\cos 2\alpha =$

(a) Sin 2 β

(b) $\sin 4\beta$ (c) $\sin 4\beta$

(d) $\cos 2^{\beta}$

 $2018 \int_{0}^{1} \frac{e^{\cos \pi x}}{e^{\cos \pi x} + e^{-\cos \pi x}} dx$ 7. The value of

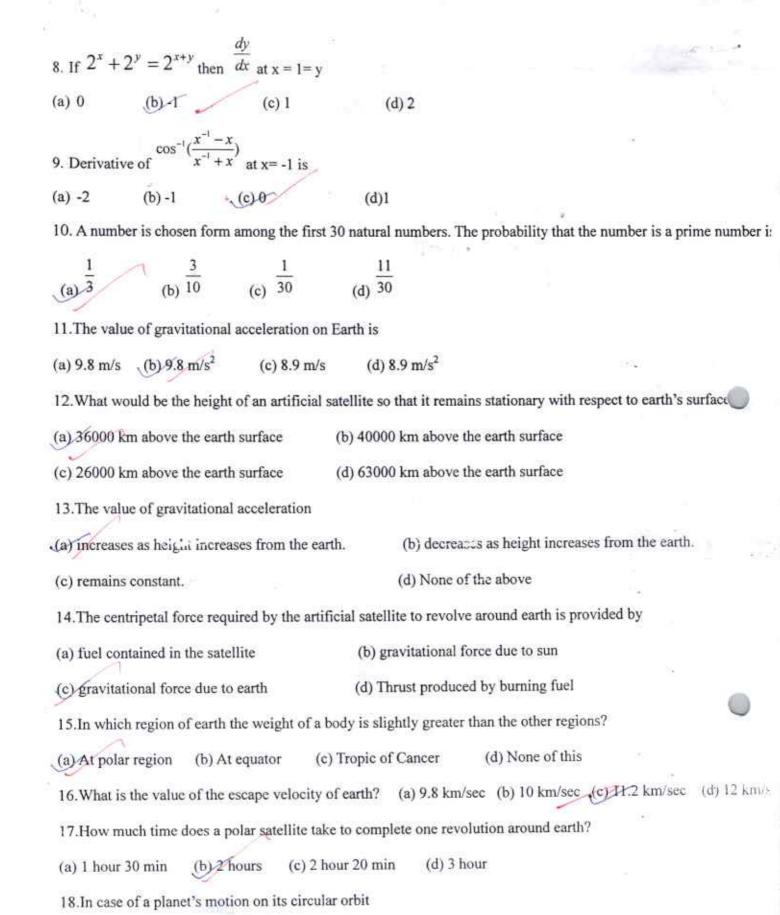
(a) 1008

(b) 1009 (c) 2017 (d) 2000

Dean Academics R.D. Engineering College

R.D. Engineering College Duhai Ghaz





(a) its velocity remains constant in its orbit	(b) its angular velocity remains constant
(c) its total angular momentum remains constant.	(d) radius of orbit remains constant.
19.If the radius of earth is decreased keeping its n	nass constant, then the length of day will
(a) decrease (b) Increase (c) remain same	(d) cannot say
20.If the earth would stop rotating then the weigh	at of an object on north pole will
(a) increase (b) decrease (c) remain s	came (d) be zero
21. Producer gas is defined as which of the follow	ving mixtures?
a) carbon dioxide and hydrogen	b) carbon monoxide and hydrogen
c) carbon monoxide and nitrogen	d) carbon dioxide and nitrogen
	ach are combined, What is the volume of the solution as a result?
a) V	-b)2V
c) Greater than 2V	d) Less than 2V
23. The heat of solution or mixing has a negative	
a) Heat of solution	b) Heat of dissolution
c) Heat of reaction	d) Heat of mixing
	in which each component's property is the weighted sum of its sepa
properties. The answer is	
- a) Ideal Solution	b) Non-Ideal solution
c) Real Solution	d) None of the mentioned
25. What is an example of camphor in N2 gas?	a) Note of the mentioned
a) Solid in gas solution	b) Gas in gas solution
c) Solid in liquid solution	d) Liquid in gas solution
26. What makes a solution?	d) Elquid III gas sorution
a) Solute and solvent	b) Solute and solute
c) Solvent and solvent	d) None of the above
27. What is the class of the substitution product	1. The North Control of the Control
a) Haloalkane	b) Alkyl-nitrite
c) Nitroalkane	d) Hydrocarbon
28. Which of the following statements about SN	2 mechanisms is incorrect:
a) The transition state is stable	rla ctan
b) The complete mechanism takes place in a sing	atration of both reactants
c) The rate of the reaction depends on the concer	intation of both reactants
d) There is an inversion of configuration	\ \ \ \
29. What is 3 Bromopropene's common name?	b) Vinyl bromide
a) Allyl bromide c) Tert-Butyl bromide	b) Vinyl bromide d) Propylidene bromide tion of a primary alcohol with HCl? b) concentrated H2SO4 Dean Academics College De
30. What is the catalyst in the chloroalkane reac	tion of a primary alcohol with HCl?
	b) concentrated H2SO4 Deanincering bases
a) red phosphorous	d) pyridine
c) anhydrous ZnCl2	b) Vinyl bromide d) Propylidene bromide tion of a primary alcohol with HCl? b) concentrated H2SO4 d) pyridine Dean Academic College
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R.D. Engineering College

Director College



Qualifying Examination

Time: - 2 Hrs

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Admission Year - (2022-23)

Name of Applicant: - Tania

Father's Name: - Priadelp kuman

Branch (to be opted):-



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

1. If the 5th term of an arithmetric progression is 17 and the 9th term is 37. What is the 1st term?

(a) -6 (b) -3 (c) 0 (d) 3

2. A die is thrown. Let A be the event that the number obtained is greater than 3. Let B be the event that the number obtained is less than 5. Then P (A U B) is

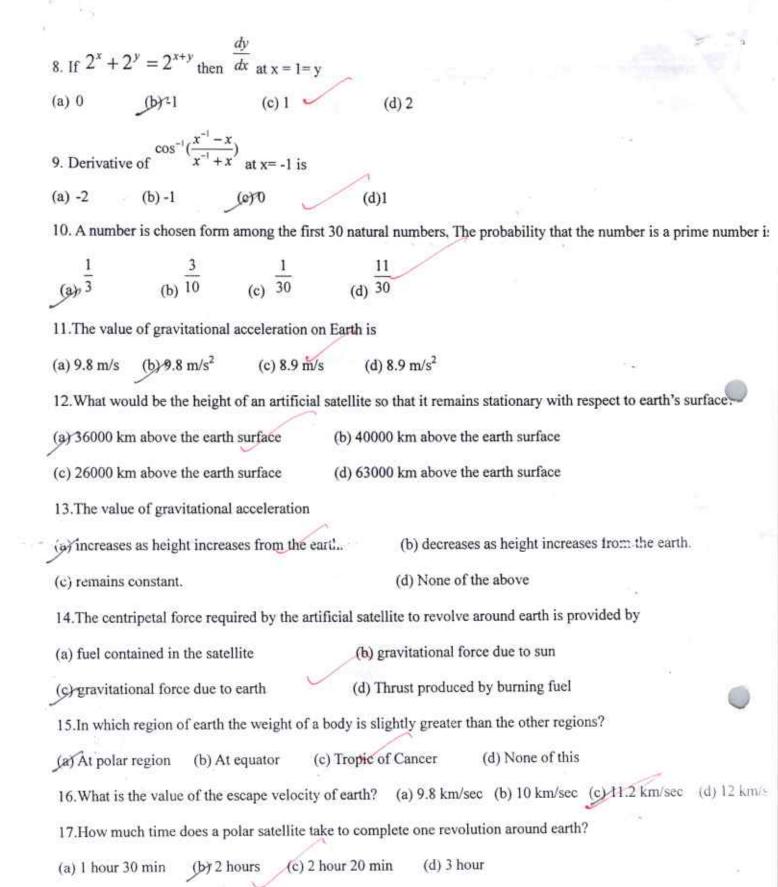
- (b) 0
- (c) 1
- 3.If $\cos x + \sin x = a$ then the value of $\cos 2x$ is

- (b) $a^{\sqrt{2-a}}$ (c) $a^{\sqrt{2+a}}$ (d) a^2-1
- $4.1i(1+\sqrt{1+x}) \tan x = 1+\sqrt{1+x}$ then $\sin 4x =$

(a) 4x

- (b) 2x
- (d) none of these
- 5. For the real value of $\cos \theta = x + \frac{1}{x}$ then
- (a) θ is acute angle (b) θ is obtuse angle (c) right angle (d) none of these
- 6. If $\tan \alpha = \frac{1}{7}$, $\tan \beta = \frac{1}{3}$, then $\cos 2\alpha =$
- (a) Sin 2 β
- (c) $\sin 4\beta$
- $2018 \int_{0}^{\infty} \frac{e^{\cos \pi x}}{e^{\cos \pi x} + e^{-\cos \pi x}} dx$
- 7. The value of
- (a) 1008
- (b) 1009 (c) 2017 (d) 2000





18.In case of a planet's motion on its circular orbit

(a) its velocity remains constant in its orbit	(b) its angular velocity remains constant			
(c) its total angular momentum remains constant. (d) radius of orbit remains constant.				
19.If the radius of earth is decreased keeping	its mass constant, then the length of day will			
(a) decrease (b) Increase (c) remain sa	me (d) cannot say			
20.If the earth would stop rotating then the v	veight of an object on north pole will			
(a) increase (b) decrease (c) rem	ain same (d) be zero			
21. Producer gas is defined as which of the f	following mixtures?			
a) carbon dioxide and hydrogen	b) carbon monoxide and hydrogen			
c) carbon monoxide and nitrogen	d) carbon dioxide and nitrogen			
	V each are combined, What is the volume of the solution as a result?			
a) V	by 2V			
c) Greater than 2V	d) Less than 2V			
23. The heat of solution or mixing has a neg				
a) Heat of solution	b) Heat of dissolution			
c) Heat of reaction	d) Heat of mixing			
	nents in which each component's property is the weighted sum of its sepa			
properties. The answer is	and the state of t			
a) Ideal Solution	b) Non-Ideal solution			
c) Real Solution	d) None of the mentioned			
25. What is an example of camphor in N2 ga				
Solid in gas solution	b) Gas in gas solution			
c) Solid in liquid solution	d) Liquid in gas solution			
26. What makes a solution?	\$ \$100X0			
a) Solute and solvent	b) Solute and solute			
c) Solvent and solvent	d) None of the above			
27. What is the class of the substitution produced	luct of LiAlH4 and an alkyl halide reaction?			
a) Haloalkane	b) Alkyl nitrite			
c) Nitroalkane	_d} Hydrocarbon			
28. Which of the following statements about	t SN2 mechanisms is incorrect?			
a) The transition state is stable				
b) The complete mechanism takes place in a				
 c) The rate of the reaction depends on the co 	oncentration of both reactants			
d) There is an inversion of configuration	T.			
What is 3-Bromopropene's common nar	ne?			
a) Allyl bromide	b) Vinyl bromide			
c) Tert-Butyl bromide	d) Propylidene bromide			
30. What is the catalyst in the chloroalkane	b) concentrated H2SO4			
a) red phosphorous	d) pyridine			
c) anhydrous ZnCl2	Dean neering ind			
	O. Engl. On			
	reaction of a primary alcohol with HCl? b) concentrated H2SO4 d) pyridine Dean Academics College D			
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R.D. Engineering College

Director
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Qualifying Examination

Time: - 2 Hrs

Admission Year - (2022-23)

Name of Applicant: - MAHD: ADNAN

Father's Name: - MOHD UMAR

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



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

1. If the 5th tepm of an arithmetric progression is 17 and the 9th term is 37. What is the 1st term?

(a) -6 (b) -3 (c) 0 (d) 3

2. A die is thrown. Let A be the event that the number obtained is greater than 3. Let B be the event that the number obtained is less than 5. Then $P(A \cup B)$ is

(a) 3/5

(b) 0

(c)1

3.If $\cos x + \sin x = a$ then the value of $\cos 2x$ is

(a) a

(b) $a^{\sqrt{2-a}}$ (c) $a^{\sqrt{2+a}}$ (d) a^2-1

 $4.\text{If } (1+\sqrt{1+x}) \tan x = i + \sqrt{1+x} \text{ then } \sin 4x =$

(a) 4x

(b) 2x

(e) x

(d) none of these

5. For the real value of $\cos \theta = x + \frac{1}{x}$ then

- (a) θ is acute angle (b) θ is obtuse angle (c) right angle (d) none of these

6. If $\tan \alpha = \frac{1}{7}$, $\tan \beta = \frac{1}{3}$, then $\cos 2\alpha =$

(a) $\sin 2\beta$

(a) 1008

(b) $\sin 4\beta$ (c) $\sin 4\beta$

(d) $\cos 2^{\beta}$

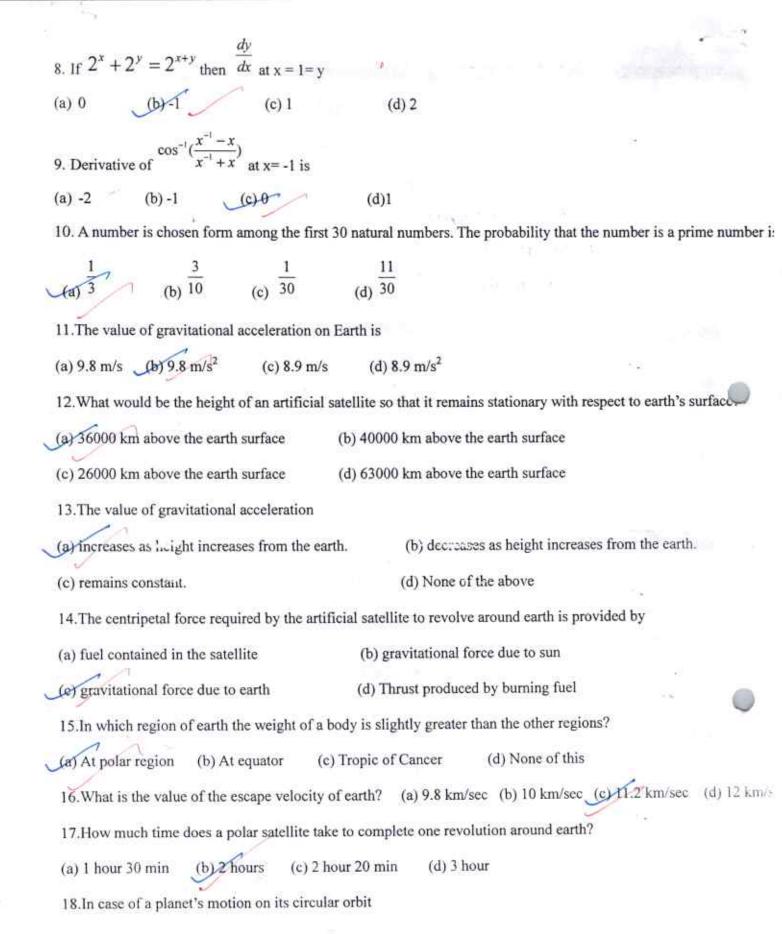


 $2018 \int_{-e^{\cos \pi x}}^{1} \frac{e^{\cos \pi x}}{e^{\cos \pi x} + e^{-\cos \pi x}} dx$ is

7. The value of

(b) 1009 (c) 2017 (d) 2000





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	(a) its velocity remains constant in its orbit (b) its angular velocity remains constant
	(c) its total angular momentum remains constant. (d) radius of orbit remains constant.
	19.If the radius of earth is decreased keeping its mass constant, then the length of day will
	(a) decrease (b) Increase (c) remain same (d) cannot say
4	
	20. If the earth would stop rotating then the weight of an object on north pole will
	(a) increase (b) decrease (c) remain same (d) be zero
	21. Producer gas is defined as which of the following mixtures?
	a) carbon dioxide and hydrogen b) carbon monoxide and hydrogen
	c) carbon monoxide and nitrogen d) carbon dioxide and nitrogen
	22. When two perfect solutions with volume V each are combined, What is the volume of the solution as a result?
	a) V
	c) Greater than 2V d) Less than 2V
	23. The heat of solution or mixing has a negative side.
	a) Heat of solution b) Heat of dissolution
	c) Heat of reaction d) Heat of mixing
	24. A solution made up of numerous components in which each component's property is the weighted sum of its sepa
	properties. The answer is
	\$1200 TO TO TO TO THE TOTAL TOT
7	### 00 (10 mm)
	c) Real Solution d) None of the mentioned
	25. What is an example of camphor in N2 gas?
-	a) Solid in gas solution b) Gas in gas solution
	c) Solid in liquid solution d) Liquid in gas solution
	26. What makes a solution?
>	a) Solute and solvent b) Solute and solute
	c) Solvent and solvent d) None of the above
	27. What is the class of the substitution product of LiAlH4 and an alkyl halide reaction?
	a) Haloalkane b) Alkyl-nitrite
	c) Nitroalkane —d) Hydrocarbon
	28. Which of the following statements about SN2 mechanisms is incorrect?
	a) The transition state is stable
	b) The complete mechanism takes place in a single step
-	e) The rate of the reaction depends on the concentration of both reactants
	d) There is an inversion of configuration
	d) There is an inversion of configuration 29. What is 3-Bromopropene's common name? a) Allyl bromide b) Vinyl bromide Dean Academics College Dean Academics Labad
_	
	c) Tert-Butyl bromide d) Propylidene bromide R. D. English, Ghar
	30. What is the catalyst in the emotoalization of a printing account
	a) red phosphorous b) concentrated H2SO4
	er anhydrous ZnCl2 d) pyridine
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Registral College

P.D. Duhal, Ghazzaniege



Qualifying Examination

Time: - 2 Hrs

Admission Year - (2022-23)

Name of Applicant: - Varshita Aggarwal

Father's Name: - Asun turar

Branch (to be opted):-



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

If the 5th term of an arithmetric progression is 17 and the 9th term is 37. What is the 1st term?

(a) -6 (b) -3 (c) 0 (d) 3

2. A die is thrown. Let A be the event that the number obtained is greater than 3. Let B be the event that the number obtained is less than 5. Then P (A \cup B) is

(b) 0

(er1

3.If $\cos x + \sin x = a$ then the value of $\cos 2x$ is

(a) a

(b) $a^{\sqrt{2-a}}$ (c) $a^{\sqrt{2+a}}$ (d) a^2-1

4.If $(1+\sqrt{1+x})$ tan $x = 1+\sqrt{1+x}$ then $\sin 4x =$

(a) 4x

(b) 2x

(d) none of these

5. For the real value of cos

(a) θ is acute angle (b) θ is obtuse angle (c) right angle (d) none of these

6. If $\tan \alpha = \frac{1}{7}$, $\tan \beta = \frac{1}{3}$, then $\cos 2\alpha =$

(a) Sin 2 β

(b) $\sin 4\beta$ (c) $\sin 4\beta$ (d) $\cos 2\beta$

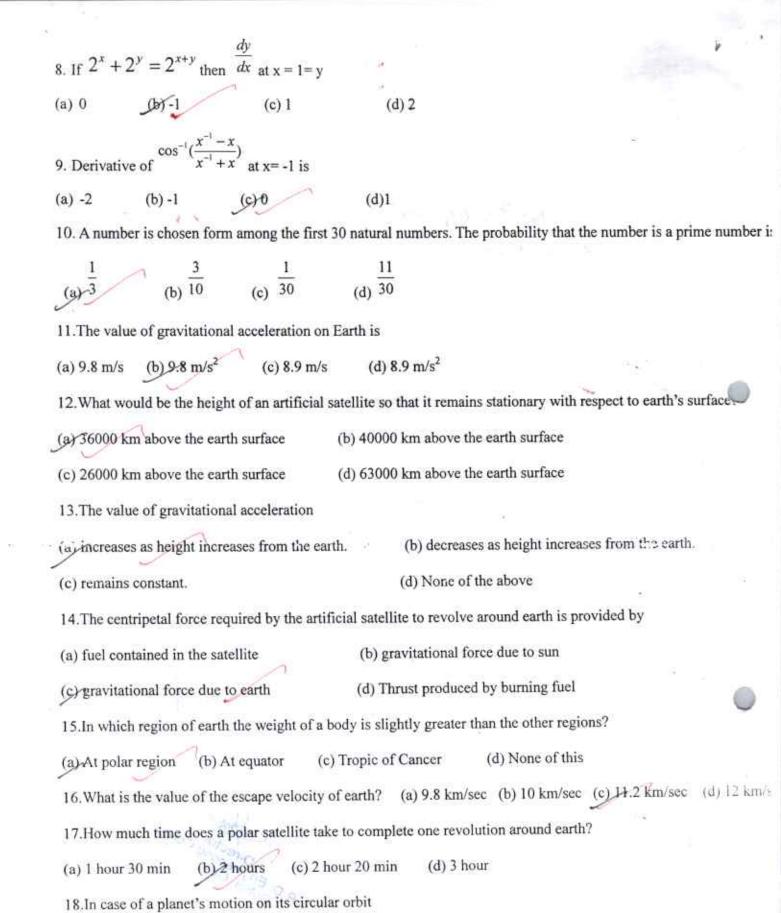
R.D. Engineering College Duhai, Ghaziabad Dean Academics

 $2018 \int_{0}^{1} \frac{e^{\cos \pi x}}{e^{\cos \pi x} + e^{-\cos \pi x}} dx$ 7. The value of

(a) 1008

(b) 1009 (c) 2017 (d) 2000





"(a) its velocity remains constant in its orbit	(b) its angular velocity remains constant
(c) its total angular momentum remains const	ant. (d) radius of orbit remains constant.
19.If the radius of earth is decreased keeping	its mass constant, then the length of day will
(a) decrease (b) Increase (c) remain san	
20.If the earth would stop rotating then the we	No. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
WARREST CONTRACTOR CONTRACTOR	and the solution have the
(a) increase (b) decrease (c) rema	in same (d) be zero
21. Producer gas is defined as which of the fo	llowing mixtures?
 a) carbon dioxide and hydrogen 	b) carbon monoxide and hydrogen
carbon monoxide and nitrogen	d) carbon dioxide and nitrogen
22. When two perfect solutions with volume	V each are combined, What is the volume of the solution as a result?
a) V	-6/2V
c) Greater than 2V	d) Less than 2V
The heat of solution or mixing has a negation	tive side.
a) Heat of solution	b) Heat of dissolution
c) Heat of reaction	d) Heat of mixing
	ents in which each component's property is the weighted sum of its sepa
properties. The answer is	
a) Ideal Solution	b) Non-Ideal solution
c) Real Solution	d) None of the mentioned
What is an example of camphor in N2 gas	
a) Solid in gas solution	b) Gas in gas solution
c) Solid in liquid solution	d) Liquid in gas solution
26. What makes a solution?	
a) Solute and solvent	b) Solute and solute
c) Solvent and solvent	d) None of the above
What is the class of the substitution produ	
a) Haloalkane	b) Alkyl nitrite
c) Nitroalkane	d) Hydrocarbon
28. Which of the following statements about	SN2 mechanisms is incorrect?
a) The transition state is stable	, , <u>, , , , , , , , , , , , , , , , , </u>
b) The complete mechanism takes place in a	
c) The rate of the reaction depends on the con	
d) There is an inversion of configuration	b) Vinyl bromide d) Propylidene bromide eaction of a primary alcohol with HCl? b) concentrated H2SO4
29. What is 3-Bromopropene's common nam	e?
a/Allyl bromide	b) Vinyl bromide d) Propylidene bromide eaction of a primary alcohol with HCl? b) concentrated H2SO4
c) Tert-Butyl bromide	d) Propylidene bromide
30. What is the catalyst in the chloroalkane r	b) concentrated H2SO4
a) red phosphorous	d) pyridine
c) anhydrous ZnCl2	d) pyridile
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Qualifying Examination

Time: - 2 Hrs

Admission Year - (2022-23)

Name of Applicant: - .. Kichi. Michaid

Father's Name: - . Route Jeet. Michael

Branch (to be opted):-



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

1. If the 5th term of an arithmetric progression is 17 and the 9th term is 37. What is the 1st term?

(a) -6 (b) -3 (c) 0 (d) 3

2. A die is thrown. Let A be the event that the number obtained is greater than 3. Let B be the event that the number obtained is less than 5. Then P (A v B) is

(b) 0

(c) 1 (d) 5/2

3.If $\cos x + \sin x = a$ then the value of $\cos 2x$ is

(b) $a^{\sqrt{2-a}}$ (c) $a^{\sqrt{2+a}}$ (d) a^2-1

4.If $(1+\sqrt{1+x})$ tan $x = 1+\sqrt{1+x}$ then $\sin 4x =$

(a) 4x

(b) 2x

(d) none of these

 $\theta = x + \frac{1}{x}$ then 5. For the real value of cos

- (a) θ is acute angle (b) θ is obtuse angle (c) right angle
- (d) none of these

6. If $\tan \alpha = \frac{1}{7}$, $\tan \beta = \frac{1}{3}$, then $\cos 2\alpha =$

(a) $\sin 2^{\beta}$

(b) Sin 4 B

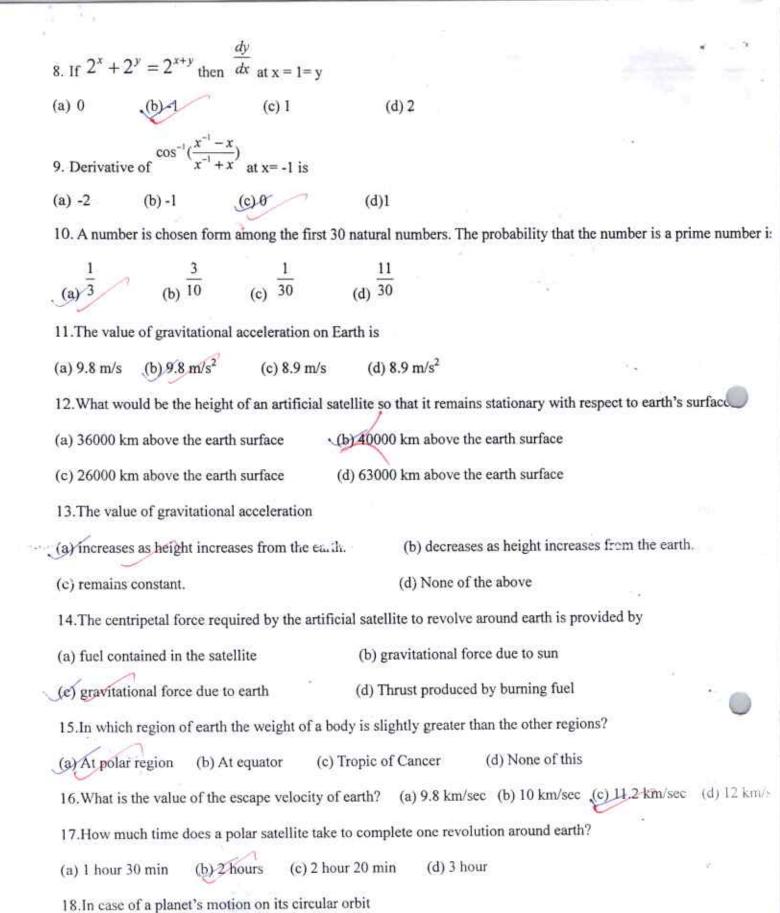
(c) Sin 4 β

(d) $\cos 2^{\beta}$

 $2018 \int_{0}^{1} \frac{e^{\cos \pi x}}{e^{\cos \pi x} + e^{-\cos \pi x}} dx$ 7. The value of

(a) 1008

(b) 1009 (c) 2017 (d) 2000



6		4	
(a) its velocity	remains constant in	its orbit (b) its	angular velocity remains constant
(c) its total ang	ular momentum rer	nains constant. (d) rad	ius of orbit remains constant.
19.If the radius	of earth is decreas	ed keeping its mass co	nstant, then the length of day will
(a) decrease	(b) Increase (c)	remain same (d) o	cannot say
20.If the earth	would stop rotating	then the weight of an	object on north pole will
(a) increase	(b) decrease	(c) remain same	(d) be zero
21. Producer ga	as is defined as whi	ch of the following mi	ixtures?
	de and hydrogen		oon monoxide and hydrogen
			- Carrier - 18 an - Carrier - Carrie
	oxide and nitrogen		bon dioxide and nitrogen
	perfect solutions w		combined, What is the volume of the solution as a result?
a) V		(b)2	
 c) Greater than 	2V	d) Lo	ess than 2V
23. The heat of	solution or mixing	has a negative side.	
a) Heat of solu	tion	\b}	Heat of dissolution
c) Heat of reac	tion	d) 1	Heat of mixing
			ch each component's property is the weighted sum of its sepa
properties. The			5000 CT 1999 TO CREAT THE STO SECTION SECTION SECTION OF SECTION (TO SECTION SECTION SECTION SECTION SECTION S A LANGE CONTRACTOR OF SECTION SE
a) Ideal Solution		b)	Non-Ideal solution
c) Real Solutio			None of the mentioned
	example of cample	TO THE RESERVE OF THE PARTY OF	1,010
a) Solid in gas) Gas in gas solution
			Liquid in gas solution
c) Solid in liqu		u)	Liquid in gas solution
26. What make		LV	Colute and solute
a) Solute and s			Solute and solute
(c) Solvent and	solvent		None of the above
	class of the substi		H4 and an alkyl halide reaction?
 a) Haloalkane 			Alkyl nitrite
6) 1:111 william 1			Hydrocarbon
28. Which of t	he following staten	nents about SN2 mecha	anisms is incorrect?
a) The transition	on state is stable	9 9 N W	
b) The comple	te mechanism take:	s place in a single step	e e e e e e e e e e e e e e e e e e e
c) The rate of t	the reaction depend	ls on the concentration	of both reactants
d) There is an	inversion of config	uration	N × X
29. What is 3-1	Bromopropene's co	mmon name?	h 1
, a) Allyl bromie			b) Vinyl bromide I) Propylidene bromide a primary alcohol with HCl? Dean Academics College Concentrated H2SO4
c) Tert-Butyl b	romide	d	1) Propylidene bromide
30 What is the	e catalyst in the chl	oroalkane reaction of	a primary alcohol with HCl?
a) red phospho		b)	b) Vinyl bromide I) Propylidene bromide a primary alcohol with HCl? b) concentrated H2SO4 d) pyridine R.D. Duhai.
c) anhydrous 2		(Jed.)	d) pyridine R.D. Quhal.
C) armydrous 2			Var.
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RD Engineering College

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Qualifying Examination

Time: - 2 Hrs

Engineering College Duhat, Ghaziahad

Admission Year - (2022-23)

Name of Applicant: - .. Ankus

Father's Name: - ... Nanenden

Branch (to be opted):- . C.S.- I.O.T



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

1. If the 5th term of an arithmetric progression is 17 and the 9th term is 37. What is the 1st term?

(a)-6 (b)-3 (c)0 (d)3

2. A die is thrown. Let A be the event that the number obtained is greater than 3. Let B be the event that the number obtained is less than 5. Then P (A v B) is

(b) 0

(c) 1

3.If $\cos x + \sin x = a$ then the value of $\cos 2x$ is

(a) a

(b) $a^{\sqrt{2-a}}$ (c) $a^{\sqrt{2+a}}$ (d) a^2-1

 $4.\text{If } (1+\sqrt{1+x}) \tan x = 1+\sqrt{1+x} \text{ then } \sin 4x =$

(a) 4x

(b) 2x

(c) x (d) none of these

 $\theta = x + \frac{1}{x}$ the 5. For the real value of cos

- (a) θ is acute angle (b) θ is obtuse angle (c) right angle
- (d) none of these

 $\alpha = \frac{1}{7}$, $\beta = \frac{1}{3}$, then $\cos 2\alpha =$

(a) Sin 2 B

(b) $\sin 4\beta$ (c) $\sin 4\beta$

(d) cos2

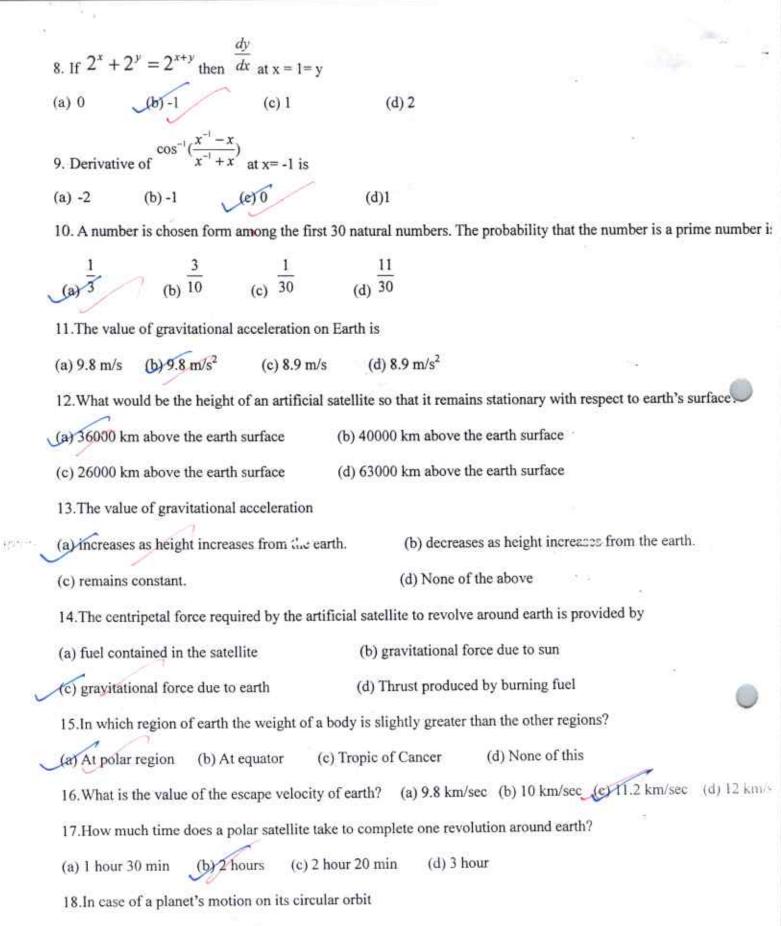
 $2018 \int_{0}^{1} \frac{e^{\cos \pi x}}{e^{\cos \pi x} + e^{-\cos \pi x}} dx$

(a) 1008

7. The value of

(b) 1009 (c) 2017 (d) 2000





(a) its velocity remains constant in its orbit	(b) its angular velocity remains constant
(c) its total angular momentum remains constant.	(d) radius of orbit remains constant.
19.If the radius of earth is decreased keeping its	mass constant, then the length of day will
(a) decrease (b) Increase (c) remain same	(d) cannot say
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e) earbon monoxide and nitrogen	d) carbon dioxide and nitrogen
· · · · · · · · · · · · · · · · · · ·	
a) V	ach are combined, What is the volume of the solution as a result?
	(b) 2V
c) Greater than 2V	d) Less than 2V
23. The heat of solution or mixing has a negative	
a) Heat of solution	b) Heat of dissolution
c) Heat of reaction	d) Heat of mixing
	in which each component's property is the weighted sum of its sepa
properties. The answer is	
a) Ideal Solution	b) Non-Ideal solution
c) Real Solution	d) None of the mentioned
25. What is an example of camphor in N2 gas?	
a) Solid in gas solution	b) Gas in gas solution
c) Solid in liquid solution	d) Liquid in gas solution
26. What makes a solution?	Confidence (All Confidence on the Confidence on
a) Solute and solvent	b) Solute and solute
c) Solvent and solvent	d) None of the above
27. What is the class of the substitution product	
	b) Alkyl nitrite
a) Haloalkane c) Nitroalkane	d) Hydrocarbon
28. Which of the following statements about SN	2 mechanisms is incorrect:
(a) The transition state is stable	1
b) The complete mechanism takes place in a sin	
c) The rate of the reaction depends on the conce	ntration of both reactants
d) There is an inversion of configuration	N A V
29. What is 3-Bromopropene's common name?	1237 11 12
a) Allyl bromide	b) Vinyl bromide
c) Tert-Butyl bromide	d) Propylidene bromide
30. What is the catalyst in the chloroalkane reac	tion of a primary alcohol with HCI?
a) red phosphorous	b) concentrated H2SO4
c) anhydrous ZnCl2	d) pyridine Destination
	Engl. On
	R.D. Duna
	d) Propylidene bromide tion of a primary alcohol with HCl? b) concentrated H2SO4 d) pyridine Dean Academic College Engine Charles and Duhair Charles and Duhair Charles and
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