GOVERNMENT DEGREE COLLEGE, SHADNAGAR

EN KERTEREN KERTEREN

INTERNAL EXAMS PATTERN

Time: 60 mins.

Max. Marks: 20

Section-A

1. Multiple Choice Questions

(Marks: 1X1/2= 5 M)

Section-B

2. Fill in the blanks

(Marks: 1X1/2= 5 M) <u>Section-C</u> (Marks: 5X1= 5 M) <u>Section-D</u>

- 3. One word answers
 - 4. Assignment
- (Marks=5 M)



Gout Degree College Shadnagaz Physics - Typeas Isen (2021-22) Has Mathr:-15 15 Mechanics & Oscillations ce collectione:- 30min. Part A. MCQ. IOXV, =05 O if the given two vectors At B are at right angle this A.B-() DIST. RANG @ 1 60 C ~ A AB () AX(B+2)= MXB + AXE, This eqn ? property of vectorproduct. @ Associative (Ecomonulative Distributive (mone @ salar product of renit orthogonal vectors is given by () @ i-i=j·j=k·k=1 (B) kxi=j (C) AxB=d B8m0 (B) A·B=B·A () If divit is negative then it means fluid serves as () @ Source @ Sink @ Surface @ Working Substance. (S) if curl A to Then A is () @ rotational (irrotational (scalar (negative (6) Thurst on the rocked is green by C @ Fest & T= dH (v-u) Olog Moh & gt. Draw of conservation of limear momenter is given by (@P=mv @ I=EXP @ Fext=0=>P= const @ rent=0 =>L (8) In equ w= w, +at, w, represents () @ Angulas acceleration (5) rime (3) angulas displacement (a) angulas velocity (initial). (9) In equil= In , The I represents () @ scaler & vector @ tonsos @ mon.

(dt) = (dt) + ? () O IN BY OWXL D Warvy Page-B:-Fill in the blanks 10x1 =05 The linear integration, along closed curve in Lamellasseeters field is (2) The curl of a vector field is a - quantity. (B) IS (9724+79.74) dv-(Newton's first law is formation as (5) The equi representing motion of a rocked -(6) Angulas displacement O- ____ radians (D) re-ret-1/2 at2, varite similar type of eqn in angular or solation motion (18) If Tret Ty + Tz, the body is (1) Third Ender's egn Decensional velocity wp= Part-C:- V.S. A.G. SXI=5 Divergence of a vector field (2) stokes theorem (meth. form) (23) Green's theoren second part (ay Impact parameter (28) Rigid body.

Swort Darce Conteres Shadinages.
Har Have us fintened comestication Time: 30 min
Har Have us fintened comestications.
Section 1 - 101/2 = 05, HCQ.
O optical pack difference in tions of
$$\lambda$$
 in Hitt correctment ()
a) 102 b) 102 c) 102 d) $\frac{102}{12^2}$
The value of k in Locarty transformation of $\alpha' = n(\alpha - \Psi t)$ (
 $\otimes h_{2} \pi^{2} \pi^{2} + 3^{2} + 6 + k_{2} + (1 - \sqrt{2})^{2} + (1 - \sqrt{2})^{2}$

(2) In eqn T=2TT√I, The torsional regidity c =? (1) @ HY1Y DHRL OVT 2 @ mgsmd (1) In eqn 22 + y2 = 1, if a=b Then it represents () (ellipse (hyperbola) circle Destraight lime. Section B: - 10×1/2=05, Fill in The blanks:-(The frame in which Newton's laws are not valid are called as 1 H.H. experiment attempted to measure The speed of light relative to (B) The Lorentz transformation formula for time is t = (4) In four vector formalism 24= (B) In SHM, accelutation is proportional to I V= No Va= 22 Then for 2 = a, V= : (F) The equivalent length of compound pendulum is (B) The differential equi of Dito is (19) Emergy of DHO, E= adma wr, r represents section-c SXI=5, Very short Answer questions. (2) Periodic Motion (2) Time dilation (2) Draw Lissajourgifique for (111) freq. with \$=174 (24) Resonance (28) In amplitude resor 1. shen 6->0

Grovt. Degsee College Shadhager Rangareddy Dist. (2021-22) Section-A: HCQ BSc Jyr (It sam): - Thermal Physics O conduction is the mode of transmission of heat which takey in_?_() @ Grases (Liquids (Solids (Fluids. I The unit of emissive power is (@ w/m b weber @ Newton (2) Watt 3. ep=074, Then 0= ---? (@ 6602 XI0 27 kg (B) 9.1 XI0 kg (D 5.67 X TO & W/mi-kg) (In eqn (statt)=1, Thaterm'a' sepresents () (a) area (b) angle (c) absorptance (d) attenuation (c) In MT = const. The value of m increases with () @temperature (b) absolute temperature () material of B.B. 6 Egan = STIRT da sequerents () (d) morre. (stefani law (R.J law O Plankis law (F.D law. DAS per Plank's radiation law, The radiation energy is inve Moportional to _? power of 7. () 05640301 I When a isvery small, Then Plank's law reduces to (@ R.J law & Weln's law @ Wein's diplent law @ B.G.

(Orisappearing flament pyramety works between temp range) O conic to Isroic (1500 c to sovie O 200 to sovie)>20001 (1) Radius of the sun R= 2 () @ 15×10"m @ 6.92×108m @ 5.67×10 cm @ 13401<m. Section (B): - Depine following :-O Define Blackbody: @ Pysoonetis 3 Phase space (Ensemble. 5 Fermions.

Grout Degree Collège Shadnager 20) B.S. Type (Tern) - Internet (2021-22) Thormal Physics. Harberts Scotront: MCB E - Average speed is given by C [S] a). JEET b). JERT c). JERT d). JET PAT Due to transport of momenta _ phenomena arises () a) Diffusion (b) Viscosity () Thermal conductivity d) Plassure. (3) The relation between M + K is given by. () (a) K= MA (D) Y=KA (C) MK=CV d) K=MCV A system in which neither mass not energy is transferred across the boundary is called () @ Open System (Isolated system (Closed system of sink. S Leroth law of Mosmodynamics leads to the concept of C. Tenperature & Heat @ Work d) Pressure. (Workdone in adiabatic process isginen by () $(W = \frac{R}{1-3}(T_1)$ $(W = \frac{R}{1-3}(T_2-T_1)$ (W = F.d.)P when _____, melting point of substance rise with invære in pressure. $O \downarrow J$ a). $V_1 = V_2$ $O \downarrow_2 \times V_1$ $O \downarrow_2 = V_1 = 0$ @ signifaction temperature of the is () O) -263° c (b) -273° c (c) -268° c (d) -278° c. (9) In equider du-Bdi. They term & represents of) Jutensity of magnetisation (b) Magnetic Induction () Flux d). Permiability. () y= q , in this relation of means () @ Retendivity (Coercivity @ Susceptibility d). Permitivity

Scettron - B :- Fill in the blanks: - LOX 1/2 = 05 :-(1) The relation of Diffusion is D= Cp: C: Cams = (2) (B) work done against friction is an example of gasyst (Entropy is a measure of The entropy of the remislerse is 15 (16) Tds+Pdv () (3f) = (B) 2nd Tds eqn = (a) Temperature at taple point is eq. of Advabatic Demagnetisat 20) Tf - Ti = Section C: Very Short Answer question: (2) Surroundings (2) second law Kelreinis statut (23) Name for theremodynamical potentials (24) Latent heat (25) Joule expans

Gout Deglee College, Shadnagar Masc Mark B.S. (MPJ+(MPJ), Hyz (180m) (2021-22) (25) (15 Physics- Paper-3- Internal enam Thime 130 Electromagnetic Theory Section: A MCCQ, IDX1,=05 Q Differential form of togalays law C) (3) OVE-38 OJEdize OP= B Diz= - AP @ If 98= Hi Thin & for secondary cottrs (PANGA @-ndj &-ndj O i/A d)-37 (3 7. J+ 3f=0 is valid only when () (a) current varies (b) 3570 35=0 (d) potential isgero. O VIB- MS [JF 3] is also known as (@ Ampure's - Mascwell's law 6 Displacent werent and flund (3) First manwell's egn for varium () OVB=0 DVE= & OVE=0 OVE=- 3E 6) The first boundary condition at dielectric boundary (@ D= the B TB = ME 2B C) E. = Sind (D) cood = E (7) Units of poynting vectors is ((a) Watt/m2 (b) Joule (a) m2 (b) meter. (a) 3f t= 1/R then i=2(1-e^(K/D)) changes to () @ i=i (0.63) (0.1=i) (0.57) (0.1=i) (0.63) D'The Decay of charge in R-c circuit is represented by () D' v= 20(1-e^{t/Ri}) & 9=7,x0.63 & 2=9,e^{t/Rc} & 7=9,00.

Section-BI-Fill in the blanks, 10 K/2=05. (1) In LCR series lesonant cht 2= @ Inher ekt, when Rislow, the peak is high sit is known Bick parallel ckt Q factor = (An eliment which is not an energy source is a (3) An _____ source is indicated by a 3. 12) Continuity equis also knownas B) The _____ of electric field intensities at the bounda of a chargeless dielectric are equal. I For the through pure inductance, 13 1/2 radians (1) In parallel LER cht admittarin y= (2) The three phase ac motor consists of two parts. Sector- - V.S. A.B., 5XI=S. Denge law & Second Harwell's egn fordichetsic medin.

Goot Degree College Stadnagez Markes:- 15 SectionA: - LOND = 05 HCB. (2021-22) Marks:- 15 () In eq. IO = Io 6020, IO = I. if O = 0 (10) 02 (2) a) 45° b) 90° c) 0° d) 180. (2) Brewster law is represented by C) D'1=90'-i, b) U = Tan ip c) U= Sini d). Loc coro. D'sn double sefraction _? image morees when crystal is turne a) oschinery b) - extraoschinery c) both d) nome. (3) In Nicol's prism, the angles will be (a) 68°, 112° b) 71°, 109° c) 1°, 179°, d). 90°, 90° (As If> II => VEXVo in ? Lystal () a) canada balann b). Die c) calcite d) Quertz. (Heasurement of latural Chromatric absorbation 25 C) a). BRAR-BUAU D). IR-IV C). UN MR d). fr-fv (D) w = <u>MR-MV</u>, in this relation to stands for () a) Angulas frequency by Work c). Dispersion d). Pawer gli The condition for achromatic doubled is () $\alpha) \cdot \frac{f_R + f_V}{2} = \frac{f_R}{f_R} \quad b) \quad V_R - V_V = \frac{w}{f} V^2 \quad c) \cdot ll = \frac{sini}{sin2} \quad d) \cdot \frac{f_I}{f_2} = \frac{w_I}{w}$ (2) M, Y, Simo, = M, Y, Simo, is the condition for removal of (a). Coma b). Astigmation D'Curvature d). Distortion. (a) electrical b). Optical c). Mechanical d). Thormal

VP

Betion-B= 10×1,-05 Fittinthe blanks:-The light having vibrations in only one direction is known Double segraction means unpolorised light. ofter parsing The ough caleite crystal. O Polarisation by selective absorption is also known as (9) — is an example of negative crystal. (5) For half wave plate t= (In S= 100, me value of 1 is taken in renit B avature às a type of ______ aberration Asneitudinal chromatic alcerration for a concave lous is. 1 The two planes in Astigmatism "are _____t The optical fibres are based on principle of _____ Section C: - Very Short Annues Question. @ Optical Activity . (2) Example of leave lotatory substance 3 Aberration (20 Main parts of optical fibre (25) Numerical aperture.

(10) Max Marks:-15 Physics-5- Modern Physics-(2021-22) Time: - Bomin and Internal Engineering Section-A:- MCQ 1 10X Y = 05 O According to Bohr's Atomic Model MV2 fig Cars Oh But Oak Drone (2) 114° will be equal to () @ 1510m @ 1510cm @ 10¹² m @ 10 cm ili T Energy of the electron in first Bohr orbit is (@ -- 1- 51 ev () - 13.6 ev () 0 (3) The value of Ryelberg's const = ? () (6) 9.1/10 = 1/2 () -21 -21 -1 () -97×107 () 60 2×10¹⁹ col () 667×10 m () -97×107 (The spectral series which lies in visible region is () @ Lyman series (Balmer series @ Paschen serie) offind Enignetic orbital quanto no values are from () O-lto +1 D l to 21 C o to l D -1 to (21+1). O In L-Scoupling the possible values of S for three electrons @ 1,0 62,1,0 0 3/2 1/2 (-1/2,1/2. 8) for interesty rule DI=-1 + DJ=+1 the value of IC @ Most interver 6) less intern @ weaks @ no transition " (9) if a=b=c 4 d=B=8796 Then crystal systemis() D'aubic D'Monoclimic D'Triclimic D'Rhombohedral.

(Gre, Si, Celt. are examples of -2 crystal () Denic 6 Molecular & Covalent & Metallic Section-B: Fill in The blanks: 10×4=05 1 The interplanar spacing d= (1) The no. of atoms per renit cell in BCC is -G For Nach lattice the value of Madelung const. =. (1) Redins of Bohrs oblit 2m = _____ I The recipercal of the wavelength is known as B According to Sommerfeld's theory, the shape of orbit is (P) Selection rule for Jrs B I'm Zeeman effect, only 2 lines appear when spectrum is viewed (9) Jon Born Habes cycle SH = crystal system (20) Kczoz is the example of Section-C: - Very short Answer questions - 05 XOI = 05 D Baris 20 Miller Indices @ Parchen Back effect (2) Stark effect (28) Two main concepts of vector atom model

S'Quantur Mechanical Operator of momentur is (Q to V Oth V Oth V Oth Z @ In R= Rod's, Ro=? C @ 10 m @ 10 m @ 1.3 × 10 m @ 1.1 × 10 m. $() [Z_m + (A - \overline{X})_m - M] c^2 = -? ()$ @ B.F. (b) AM (c) F (d) SN Section_B Fill in the blanky :- Lox 1/2 =05 1 Mars of proton _ @ In N= NoEnt equ, N represents (B) In XIA; A represents B B B of Fe is D'Electric quadrapale mannet= (6) Magic no. in Shell Model ion. B &-particle is actually -1 Timeson decays into an (1) In positive B delay N/P ratio (2) The maseimum energy in B-spectrum's called Section-C: - Very Short Annuel Questions a) Stopping potential De Matter wave 23 Heisenberg U. Pr. 20 Operator (20) Grieger-Nuttal law.

Grove Degree College Shednagas Rangereddy Dist. Section: A: MCG. Finalys I sem - Physics (202) 24 Reetronics- Paper V/A. () The substance with least conductivity of (SHA) S. @ Metals & Diamond @ Ge @ As @ Escample of acceptor impusity is () Q qe (D Si () B () As 3. The layer which sequerates the pregion from a region in a junction diade is (@ Juntion layer @ Depletion layer @ Potential barrier @ AU The akt which converts AC to DC is known as (Diode & Voltage regulator O Amplifies @ Rectifies 5 When The With State Then 2, = ? Qi Qo Q∞ dim 6 In common base configuration the current amplification Dia-Ic DB-Je (c) iz= Vz (d) M=0.812 IE IB JE IB JF B=1 Then d=? (C) faitor is C 010200 0Y2 3) $T_{E} = -? (T_{a}) + (I+B)T_{CBO}$ @ (1-B) @ 1+B @ + x @ 1+B D Powergain Ap= -? (

The resultant phase Difference due to 3, RC sections in a phase shift oscillator as () @ 180' 6 60' 360' (190' The gap between valance band + conduction band is Section - B @ At o'k, The semiconductors normally have an energy ga of ______ev; 3 As is a ____ impurity. W The rectifier with four diodes is known as 3 Zeur drode aan be utiliged as (The collector is ____ doped region. BX IF+ ICBO 1 st V:= Vs+Vg= Vs+ BV thin Jeedback is (9) Backhausen Criterion (20) A 1+ 14 P

GOVT.DEGREE COLLEGE, SHADNAGAR,R.R-DIST

CBCS III YEAR 1ST INTERNAL EXAMINATION 2021

CHEMISTRY-PAPER-V

Name:		Roll Number:
Group:		Date:
Max.Marks:15	SECTION-I	Time: 30min
Note: Answer all que	estions	10 x ¹ / ₂ =5M
Choose the Correct a	answer	
 Solvent extract a) Extra solvent 	ion is more effective when the b) Large solvent c) Small solver	he extraction is repeated with: nt d)No solvent
2. What is the use of ea) To separate organicd) To separate solvent	ether layer? c impurities b) To separate inorganic in t	npurities c) To separate fibers
3. Solvent extraction ifa) Odor b) Textu	is based on the relativeof two here c) Solubility d) Color	iquids.
4. What is the represe a) S b) H c) G	ntation of distribution coefficient? d) K	
5. Chromatography is a)Solution b)Mixture	used to separate s of compounds c) Molecules d) Atom	lS
6. Chromatography w	ith solid stationary phase is called	
a) GC b) HPLC c) G	Column Chromatography d)All.	
7. Pattern on paper in a)Chroming	chromatography is called b) Chroma c) Chromatograph	d) Chromatogram
8. In which type of ch phase is forced through	romatography, the stationary phase he gh it under pressure?	ld in a narrow tube and the mobile
a) Column chromatog	raphy b) paper Chromatography	c) Liquid chromatography d.None
9. Which of the follow	ving cannot be used as adsorbent in Co	olumn adsorption chromatography?
a) Magnesium oxide	b) Silica gel c) Activated alumina of	d) Potassium permanganate
10. Principle involved	l in Paper Chromatography	<u> </u> .

II. Fill up the blanks	10 x ½=5M
1. Write the abbreviation of LLE	
2. Mobile phase in HPLC	
3. Distribution Law means	
4. In Gas-liquid phase chromatography, the stationary phase is composed of mobile phase is made of	and the
5. In Thin layer chromatography, the stationary phase is made of phase is made of	_and the mobile
6. GC abbreviation	
7. Rf Value Means	
8. HPLC means	
9. Principle involved in Chromatography Technique	
10. Write the examples of stationary phase in column chromatography	
SECTION-III 5X1=5M	
III. Answer the following questions. Write answer in brief.	
1. Write the applications of Column Chromatography?	
2. What is Batch Extraction?	
3. What is Developer?	
4. What is Continuous Extraction?	

5. What is Two Dimensional Chromatography?

GOVT DEGREE COLLEGE, SHADNAGAR

DEPARTMENT OF CHEMISTRY I-INTERNAL ASSESSMENT FOR SEMESTER 4

TIME:30 MIN	MAR	KS:15
GROUP:B.Sc MPC &BZC FINAL YEAR SUBJECT:CHEMIST	RY	PAPER-4
ROLL NO NAME OF THE STUDENT:		
SECTION I 10*1=10 marks		
Choose the correct answer.	Question carries	1 mark each
 The number of unpaired electrons calculated in [Co(NH3)4] a) 4 and 4 b) 0 and 2 c) 2 and 4 d) 0 and 4 	+3 and [CoF6]3-	()
 2. Which one of the following complexes show high stability? a) [Cu(NH3)4]⁺² b) [Cu(en)2]⁺² c) [Cu(trien)⁺² d) not 	ne	()
 3. The CFSE value for a high spin d⁴ octahedral complex is (a) -0.6 b) -1.8 c) -1.6 d) -1.2)	
 4. When d- orbital metal ion are split in energy in octahedral high in energy a) dry, and dx²-y²b) dx²-y²and d ²c)dxy, dyz and dzy 	field, which orbita	ls are raised
a) dxy and $dx - y$ b) $dx - y$ and dz c) dxy , dyz and dzx		
a)solubility b)PH c) color change d)all)	
6.D-Glucose does not give the following test		()
a) Tollen's test b) Fehling's test c) Schiff's test d) All		
7. Colour of Transition metal complexes is due to		()
a) Unpaired electrons b) Paired up electrons c) None		
SECTION II 1*3=3marks		
Fill in the blanks		
1. Write example for strong field ligand		

1. Draw the splitting of the d-orbitals in octahedral complexes?

2. What is paramagnetic property?

3.write any two factors effecting CFSE?

4.Draw the structure of D-Glucose?

5.Define Inert complexes?

GOVT DEGREE COLLEGE, SHADNAGAR

DEPARTMENT OF CHEMISTRY I-INTERNAL ASSESSMENT FOR SEMESTER 5

TIME:30 MIN				Ν	/ARKS:15	
GROUP: B.Sc N	/IPC&BZC_FINAL YEAF	R SUBJECT:	CHEMISTRY	F	APER-5	
ROLL NO:		NAME OF THE ST	IUDENT:			•••
		SECTIO	DN I	1	.0*1/2=5mar	KS
Choose the co	rrect answer.		Que	estion carries	½ mark ead	ch
1. The nu a) 4 a	umber of unpaired ele and 4 b) 0 and 2	ectrons calculated c) 2 and 4	d in [Co(NH3)4]+3 d) 0 and 4	3 and [CoF6]3	;- ()
2. Which a) [C	one of the following u(NH3)4] ⁺² b) [Cu	complexes show (en)2] ⁺² c) [Cu(high stability? trien) ⁺² d) none		()
3. The Cl a) -0	-SE value for a high s .6 b) -1.8	pin d ⁴ octahedral c) -1.6	complex is d) -1.2		()
4. Wher high ir a) d _x	ו d- orbital metal ion a ו energy y and dx ² -y ² b) dx ²	are split in energ - y^2 and d z^2 c) c	y in octahedral fie lxy ,dyz and dzx	ld,which orbi d)none	itals are raise (èd)
5) Format	ion of coordination co	omplex can be de	etected by		()
a)solul	bility b)PH c) col	or change d)all				
6. In whic	h of the following con	npound 3c-2e ⁻ b	ond is present		()
7.In borar	ie boron under goes t	he following hyb	ridization		()
8.	is called	d as			()
a) 1,3,5-	tri bromo Aniline b) 1	Tri bromo A nilino	e c) 2,4,6 tri brom	no Aniline d) A	Aniline tribro	mide
9. Among tl	he following least basi	ic			()
a)Aniline	b)NH3	c)CH3NH2	D) none			

10.

SECTION II

Fill in the blanks

1. spin only Magnetic moment in [Co(NH3)6]3+ complex-----

- 2. In octahedral complexes d-orbitals split into
- 3. Ziegler Natta catalyst is used for _____
- 4. The relationship between
- 5. In B2H6 the number of terminal B-H bonds.....
- 6. Carboranes are ----- Boron and carbon
- 7. The compound with Banana bond.....
- 8. The basicity of Amines is due to
- 9. On reduction of Amides ------ is formed
- 10. is an example for primary amine

SECTION III

5*1=5 Marks

1.write eqution for half mann Bromamide reaction?

2. R-C-NH2 + 4[H]------→

3. Draw the splitting of the d-orbitals in octahedral complexes?

4. What is paramagnetic property?

5.write any two factors effecting CFSE?

GOVT.DEGREE COLLEGE, SHADNAGAR,R.R-DIST

CBCS III YEAR 1ST INTERNAL EXAMINATION 2022

CHEMISTRY-PAPER-V

Name:		Roll Number:
Group:		Date:
Max.Marks:15	SECTION-I	Time: 30min
Note: Answer all questions		10 x ¹ / ₂ =5M
Choose the Correct answer	ſ	
1.Solvent extraction isa) Extra solventb) Lar	s more effective when t ge solvent c) Small solve	he extraction is repeated with: nt d)No solvent
2. What is the use of ether laa) To separate organic impurd) To separate solvent	yer? rities b) To separate inorganic i	mpurities c) To separate fibers
3. Solvent extraction is baseda) Odor b) Texture c) Solvent	l on the relativeof two l olubility d) Color	iquids.
4. What is the representation a) S b) H c) G d) K	of distribution coefficient?	
5. Chromatography is used to a)Solution b)Mixtures of co	o separate mpounds c) Molecules d) Aton	18
6. Chromatography with soli	d stationary phase is called	
a) GC b) HPLC c) Column	h Chromatography d)All.	
7. Pattern on paper in chromaa) Chromingb) Chr	atography is called coma c) Chromatograph	d) Chromatogram
8. In which type of chromatic phase is forced through it un	ography, the stationary phase he der pressure?	eld in a narrow tube and the mobile
a) Column chromatography	b) paper Chromatography	c) Liquid chromatography d.None
9. Which of the following ca	nnot be used as adsorbent in Co	olumn adsorption chromatography?
a) Magnesium oxide b) Sili	ca gel c) Activated alumina	d) Potassium permanganate
10. Principle involved in Pap	ber Chromatography	•

II. Fill up the blanks	10 x ½=5M
1. Write the abbreviation of LLE	
2. Mobile phase in HPLC	
3. Distribution Law means	
4. In Gas-liquid phase chromatography, the stationary phase is composed of mobile phase is made of	and the
5. In Thin layer chromatography, the stationary phase is made of phase is made of	_and the mobile
6. GC abbreviation	
7. Rf Value Means	
8. HPLC means	
9. Principle involved in Chromatography Technique	
10. Write the examples of stationary phase in column chromatography	
SECTION-III 5X1=5M	
III. Answer the following questions. Write answer in brief.	
1. Write the applications of Column Chromatography?	
2. What is Batch Extraction?	
3. What is Developer?	
4. What is Continuous Extraction?	

5. What is Two Dimensional Chromatography?

GOVT. DEGREE COLLEGE, SHADNAGAR, R.R-DIST

CBCS II YEAR SEMISTER III IstInternal Examination 2022

CHEMISTRY

Name:	R	oll No:
Group:	D	ate:
Max marks: 15	SECTION-I	Time: 30min
Note: Answer all questions		
Choose the correct answer		10X1/2=5M
1. Which of the followin []	g oxidation states is the	most common among the Lanthanides
(a) 4 (b) 2 (c)	5 (d) 3	
2. Reason of Lanthanide	contraction is [l
(a)Negligible screenin	g effect of 'f' orbital	
(b) Increasing nuclear	r charge	
(c) Decreasing nuclea	r charge	
(d) Decreasing scree		
5. $[CI(IN\Pi_3)_4(INO_2)_2] CIP$	and geometrical isome	arism
(a) Linkage, Ionization (b) Ionization geome	trical and ontical Isome	rism
(c) Linkage, geometr	ical and optical Isomeris	m
(d) Linkage, Ionizatio	n and optical Isomerism	
4. Among the following ch	elating ligands []	
(a)NH ₃ (b) H ₂ O (c) NH ₂ N	H_2 (d) none	
5. Calculate EAN in the cen	tral metal ion in [Fe (CN) ₆] ⁴⁻ []
(a) 36 (b) 35 (c) 34 (d) No	one	
6. Number of unpaired ele	ctrons on Fe in [Fe (CN)	6] ⁴⁻ []
(a) 0 (b) 2 (c) 3 (d) 4		
7. IUPAC name of [CoCl(NI	H ₃) ₅] ²⁺ []	
(a)Pentammine Chlorido (Cobalt(III) ion	

(b)Hexammine Cobalt Chloride (III) (c) Both (d) None

- 8. I law of thermodynamics []
- (a) $q=\Delta u+w$ (b) $\Delta U=q+w$ (c) Both (d) None

9. Isothermal Process means process takes place at []

- (a) Constant T (b) Q=0 (c) Δ T=0 (d) a & c
- 10. Enthalpy formula []
- (a) H=U+PV (b) H=U-PV (c) U=H+PV (d) None

SECTION --II

Fill in the blanks

10x1/2=5M

- Hybridisation on central metal ion in [NiCl₄]²⁻ is
- 2. CH₃COOH +SOCl₂_____.
- 3. CH₃COOH + CH₃MgX_____.
- 4. Ligands are called ______.
- 5. EAN_____.
- 6. Relationship between Cp &Cv_____.
- 7. Ni +4CO_____.
- 8. Significant Figures are
- 10. Significant figures in 200.08_____.

SECTION- *III* 5X1=5M

Answer all the following questions. Write answer in brief.

- 1. What is Lanthanide Contraction?
- 2. What is HVZ reaction?
- 3. What happens when Salicyclic acid treated with Bromine water?
- 4. Write the difference between Accuracy and Precision?
- 5. Define geometrical isomers Give examples?

GOVERNMENT DEGREE COLLEGE, SHADNAGAR	
DEPARTMENT OF CHMISTRY	
INTERNAL ASSESMENT -1	
SEMESTER-I	MAX MARKS:15
1. Which of the following is not an organic compound?	
A.diamonds	
B. Methane	
C.ethylene	
D.ethyne	
2. What is the maximum number of covalent bonds carbon can for	rm?
A. One	
B.Two	
C.Three	
D.Four	
3. What is the correct general formula for an alkane?	
A CnH2n+2	
B. CnH2n	
C.CnH2n-2	
D.CnHn	
4. Nitrogen is chemically inert. Why?	
A. Due to presence of double bond require more energy to break	
B.Due to presence of triple bond require more energy to break	
D. None of the above	
5. Which elements listed does not belong to group 3A?	
A. Thallium	
B.Carbon	
C.Boron	
6. Which group 3A element is not a metal?	
A.Aluminium	
B.Gallium	
C.Boron D Indium	

7. Which of the following represents the oxidation state for group 4A elements? A.+2B.-4 C.+4 D.All answers are correc 8. The electronic configuration for group 3A element is 'ns² np²'. A. Yes B.No 9. The molecular shape of SF4 is A. square planar B.see-saw C.tetrahedral D.bent 'T' shape 10. Which of these is the weakest single bond? A.P-P B.N-N 2. FILL IN THE BLANKS. 1. SHAPE OF IF7 2. SHAPE OF CH₄..... 3. SHAPE OF C₂H₂-----4. SHAPE OF BCl₃ 5. SHAPE of NH₃..... 3 WRITE ALL THE FOLLOWING SHORT ANSWER QUESTION. 1. HYBRIDIZATION OF CH₄..... 2.HYBRIDIZATION OF C₂H₂------3.HYBRIDIZATION OF BC13 4.HYBRIDIZATION of NH₃..... 5.HYBRIDIZATION OF IF7-----

Govt Degree College, Shadnagar Name of the student: ______ HT.NO: Section-A Multiple Choice Questions [10×1/2=5M] 2. 2 කුජ නිස වග සටහරත්ත කුළු කිහිටයි. (ඛ) (ජින්) සිස්රි (හි) නුන් දිස්රි (ර) කිරිසිස්ර (ත්) හින හිසිර [] 3. Zustond Ise aber av. [] (a) えんえ (b) えんえい (c) えまえ (d) Brad 4. あっかんしん あっか かっとい れい ろきりせっかんの ふるい (のうきち (6) るれち (0) おいん (の) あまろすん 5. อยุยงสุ ฉองสอียมอุย ฉ ออุปรมินอเมิ Low av. EJ (の) ふえち (し) ふきん (い、おんえい 日) みまえ) 6. Zaten Deutreu Rover wort Fre そ いのからしまっしいき おんしのき ふ きおと ひのおお (a) දුාළුන (b) දින්සේ ක්ෂ්යර්ශ (c) ක්ෂ්යිස් ක්ෂ්යර්ශ (c) කිස්සේ (c) කිස්සේ (c) ක්ෂ්යර්ශ () క కర్త వర్షనప ఉపయోగించే మొచి నమూనాను ఏమంటారు. (A) పౌరాటైప్ (b) హోజిబైస్ (c) సిదిరాటైప్ (d) బిస్టోబైప్ 9. Zudil Zu Zugen wand (rodrigheren, essan 382 zuren & annouskajan 18 Zolasz adurto 16 Zubatis aturto 19 Zastadis (1) Zojadis (J 10' கூதுக் கிலலால கே கிற இறுக்குவ (a) ක්රි ගත් හිත් කත් (c) as b (d) බිහි නැකා [] SECTION-B FILL IN THE BLANKS 1 බින්ඩ් න්ඩ්ව් _____ බිහටුට ඒවූ සිටිටත් නොබා පොටස්. 2. えんえいる ふんぶんのか ふかんてんしんし ふたんしんたろ ____ - Solve a 3. $\frac{1}{2}$ \frac ギ ふのから- ほうのしき お気をのとる ____ క మొళ్లి రసాయన లక్షణాలను నర్గకరణాల్ ఉపయోగించిన దానిని _____ 9. జెంధమ్ హాకర్లు రాపించన గంధం వేరు _____ 10. ఒకటి రోదా రెండు బావ్య స్పరూపాలను ఆధారంగా చెనుకొని చెందుబాడిన 221052 (5) goordo

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Gout Degree College, Shadnagas Department of Botany Sum IV Internal Assessment - I Name of the student: HT.NO: [10×12=5M] Section-A Multiple Choice Questions 1. ఈ 1802 వాటిలు వాలకకకణాలం ఆని దోషక వేరు (a) మృదు కణాలం (b) పూలకోటియ కణాలం (c) ధ్రధకణాలం (d) పోషకకణాలం 2. කිලේක් කනුතියි පතිසාස්ථිති (a) සංරාදා (b) ක්ෂිය දි පොසාවට (c) නිහා සුදි සොන්ස් (d) තිහා දී සොව CJ 3. 2 දිසි සිහි සහ පෙන්ව (සම්කර්ගයන් ඇතු) කිල් බක්රා. (A) నోగెల్ (b) రాబర్బ్ పార్ (C) హన్ సైన్ (d) ష్ట్రెడన్ ఈ రకం పత్రరంధాలంగ్ రక్షక కణాంథ్ర తాడు శైప్రరా సమాంతరంగా రెండం అనుబంధ కణాలు అమరి ఉంటాయి. 4 ' (a) ដាលាភរុមន៍ (b) ដែលភរិមន៍ (B) មកជិតារឹមន៍ (d) មានជាកិមន៍ al 3 3 2 alser so the down 5. [] (の) みっとういうを (6) もれえる にかいもる (の) よんちずん おちょう あしのかしいと たっえ あでいあった ふたいしかん (A) あんのど あでかみ) (C) ちんかのしま) (A) みよし [] 6. acterial to ajadonious indord societa intolora C]7. 6) හැන්දු පිටු 60 (b) හිටත් අතර (c) නා 500ක් එකර (d) බිසි ලකා තිබ් 5 සා 200ක - 5 20 5 ක් කා 20 ක් 20 ක (a) විඩු කි (b) හිටු හිති (c) බිදු කි (d) බා හරිකි 8' టూనికా నుండి ప్రసైజీ కాండిస్తాగం పది. (a) $w^{2} \mathcal{A}^{2} \mathcal{A}^{2}$ 9. யாற் கிழுவது மாலாவி (ஸ்ல் ஹால் லில் வல் வல் வல் விறுவல் () வி எதே விலையால் நிலைக்கில்ல் கிறுவில் விறுவில் () 10 [10×1/2=5M] SECTION-B 11. 2003206 SETO DEN ALUN 202 20000 Salowa 12- 3000 62000055500 08,5 500 05,35 000000 50 20300000 13. Severand Zuge Lowood 14. ชิลร์ 25 ยรี ลียหม ผอรูล เธอราบอ 15. 3 කර්ත්ර විහුදිනි කිහුවේ රිර්ස් කිහිත් ක්රීම් පිළුවෙට 16 වරුරාජ්ෂ කුෂ්යා තුළියි තැංකු කුය්ෂ නිස යිට. 17. พรสรา- ราชาร์ มีสร้อยองม เลยีสาธิอามิส สาญารียร 18. 882สีมี ฉิมาจิยเครี มหอต ยีบายม มีบร ซีอนบ (สอสมยบ பி விருவி கால் கல் கில் கில் கால் வா முத்துக் கல்லுக் 19. 20. ಪರ್ನೋಗ ಸ್ಕ್ ಪ್ರಂಜ್ರಾತ ತಲೆಗೆ ಹನ್ನ ಮುತ್ತಿ [5×1=5M] SECTION-C 1. 名いきまやい ほう みあき きおおしの (3) そのようき おきであっつなのひ 2000 (6) 28-200 00 14 しるがえものを

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Govt Degree College, Shadnagar Dept of Botany; Sem VI Internal Assessment-I H7:No: Nome of the student: Section-A Multiple Choice Questions [10×1/2=5M] (ක) විනීනි (හ) බීවුනි (0) කීනීනි (ත්) කිශීබහා නීනි 2. SEDERO DE DOUR BEDT EN QUERO BOB SEN SIS. [] (a) B_1 (b) B_2 (c) B_{12} (d) B_6 3. SERVE STAND FOR STOR STOR STADIAL (d) B_6 (a) B_{15} (b) B_{20} (c) B_{12} (d) B_{20} (d) B_{25} (d) B_{25} (d) B_{25} (d) B_{25} (e) B_{25} (e) B_{25} (f) B_{25} (f)

 *
 வித்துவின் வித்தில் விதில் கூறில் கூறில் கூறில் குகல் விதுகில்
 (வ) விலி கிறில் (ம) மாக்கல் கிறில் குகல் கிறில் கிறுல் கிறுல் கிறில் கிறில் கிறில் கிறில் கிறில் கிறில் கிறில் கிறல் கிறல் கிறல் கிறி 1 (A) $\lambda \sigma \psi_{2} \psi_{2}$ (B) $\lambda \psi_{2} \psi_{2}$ (C) $\psi_{2} \psi_{2}$ (D) $\psi_{2} \psi_{2}$ (D) $\psi_{2} \psi_{2}$ (D) $\psi_{2} \psi_{2} \psi_{2}$ SECTION-B Fill in [the blanks [10 x 1/2 = 5 M] $1 \quad \partial_{1} \delta_{2}$ $\partial_{2} \psi_{2} \psi_{2} \delta_{2} \sigma \psi_{2} \delta_{2} \sigma \psi_{2}$ $\partial_{2} \delta_{2} \delta_{2} \delta_{2} \phi_{2} \delta_{2} \delta_{$ 6. තුකත් විශ්රි ආංගාරියා කාදු ස්ක් රහා ප්ර සික්සායි _ 3. Joer 10 202 まえない いったい あいな ひのないのい ____ あん えんのどうさの 8. අත්තාවයේ, 8. අත්තා දුණුව බාටස් ස්ත කිසානුවෙන බිස් ක්රීයි, කැපී නංධානය සූර් කාර්ජ බාවුවන සිස්ටුලු දියින් (ක්ළුක්කා _________ සිස් ක්රීයි සංකානයා . 9. ______ සූර්ල කර්ඩුන් බොවුව බුද්ධීය සර්කන්තා . ates anico 8. 10. ຊ່ອບ e^{-2} e^{-2} 9. [5×1=5M] SECTION - C (5) 2020 Bay 5

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Government Degree College, Shadnagar				
B.Sc. II Yr Sem IV Internal Assessment – II (2021-22)				
DEPARTMENT OF BOTANY				
(Max. Marks-20)				
<u>SECTION – A</u> (Marks=5M)				
(a) 0 (b) 1 (c) 16 (d) 38				
(a) 0 (b) 1 (c) 10 (d) 30				
(a) mitochondria (b) nucleus (c) golgi complex (d) controsome				
 A Natural auvin procent in plants is A Natural auvin procent in plants is 				
(a) 2.4.D (b) NAA (c) IAA (d) IBA				
(a) $2, 4^{-}D$ (b) that (c) that (d) the A The hormones which resulted after the Avena curvature test ()				
(a) Gibborillins (b) Cytokinins (c) Ethylono (d) Auvins				
(a) Gibbernin's (b) Cytokinin's (c) Ethylene (d) Adxins				
(a) Calcium (b) Magnesium (c) Sodium (d) Silicon				
6 Which hormone quickens the ripening of fruits				
(a) ABA (b) Auxins (c) Cytokinins (d) Ethylene				
7 The plants which exhibit Kranz anatomy (a) 20191010				
(a) ABA (b) Auxins (c) Cytokinins (d) Ethylene				
8. The cells when placed in solution show cytoplasmic contraction. ()				
(a) Hypertonic (b) Isotonic (c) Hypotonic (d) pure water				
9. What are the protein catalysts which control biological activities called as				
(a) Enzymes (b) Hormones (c) Mineral nutrients (d) steroids				
10. How many ATP are formed from the cytoplasmic NADH ()				
(a) 2 (b) 4 (c) 6 (d) 8				
<u>SECTION – B</u> (Marks=5M)				
1. The first formed stable product in Calvin's cycle is				
2. The primary acceptor of CO2 in CAM plants is				
3. The first stable product in C4 plants is				
4. The number of ATP utilized in glycolysis is				
5. The respiratory quotient of carbohydrates is				
6. The Photo System that takes part in cyclic photophosphorylation is				
7. The phytohormone which promotes dormancy is				

8. The element which is	s the main component in ch	lorophyll is		·	
9. The reaction centre of photosystem II is					
10. The CO2 fixation in CAM plants is done by					
	<u>SECTION –C</u>			(Marks=5M)	
(a) Kranz anatomy	(b) Nitrogen fixation	(c) Auxins	(d) Glycolysis	(e) Enzymes.	
	<u>SECTION –D</u>			(Marks=5M)	
Assignment					

Government Degree College, Shadnagar

B.Sc. I Yr Sem II Internal Assessment – II (2021-22) DEPARTMENT OF BOTANY

(Max. Marks-20)

(Marks=5M)	
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1. In an ecosystemis always unidirectional. ()
(a) Energy flow (b)Food chain (c) a&b (d)None
2. In xerosere the pioneer plants are ()
(a)Trees (b) Shrubs (c) Crustose lichens (d)herbs
3. Cremocarp is the fruit characteristic fruit of the family ()
(a) Mimosaceae (b) Asclepiadaceae (c) Apiaceae (d) Lamiaceae
4. The gamopetalae family which is having didynamous stamens. ()
(a) Lamiaceae (b) Asteraceae (c) Cucurbitaceae (d) Solanaceae
5. The 'S' shaped syngenacious stamens are seen in the family ()
(a) Apiaceae (b) Asteraceae (c) Lamiaceae (d) Cucurbitaceae
6. The family which contains citrus species. ()
(a) Fabaceae (b) Rutaceae (c) Poaceae (d) Asteraceae
7. In this family the pollination is done by Piston mechanism. ()
(a) Fabaceae (b) Annonaceae (c) Rutaceae (d) Lamiaceae
8. Perianth is ()
(a)Petals (b) Sepals (c) Stamens (d) a &b
9. The botanical name of Indian Rose wood is ()
(a) Indigofera tinctoria (b) Dalbergia latifolia (c) Pterocarpus marsupium (d) Tectona grandis
10. The translator is seen in which plant. ()
(a) Brassica (b) Calotropis (c) Mango (d) Dolichos
<u>SECTION – B</u> (Marks=5M)
1. Lever mechanism of pollination is seen in the plants of the family
2. In Asclepiadee the stamens at maturity form a structure known as
3. The type of inflorescence seen in the Asteraceae members is
4. Standard and keel petals are seen in the family
5. Gaddi chemanthi botanical name is
6. The complexity of foo chains is known as
7. The plant succession occurring in a water body is called as

8. When the depth	of the lake is 2-4 feet	plants enter the lake.
9. In the floating pl	ants like Nelumbium the stomata are prese	nt inepidermis only.
10. The food chain	which starts with producers is called as	
	<u>SECTION –C</u>	(Marks=5M)
(a) Food web	(b) Moss stage (c) Crustose lichen stage	(d) Food chain (e) Gynostegium
	SECTION –D	(Marks=5M)
Assignment		

Govt. Degree College, Shadnagar	
<u>B.Sc. I Yr Sem II Internal Assessment – I (2021-22)</u> DEPARTMENT OF BOTANY	
(Max	. Marks-20)
<u>SECTION</u> – <u>A</u> (Marks	s=5M)
 In Gymnosperms name the plant which has winged pollen grains. (a) Cycas. (b) Pinus (c) Gnetum (d) None [] What is the state of endosperm in Gymnosperms. (a)Triploid (b) Diploid (c) Monoploid (d) Polyploid [] The branches which are found in the axils of scale leaves of Pinus are (a) Short branches (b) Long branches (c) both (d) None [] Mycorhizal roots are found in the axils of scale leaves of Pinus are (a) Short branches (b) Long branches (c) both (d) None [] Mycorhizal roots are found in (a) Cycas. (b) Gnetum (c) Pinus (d) None [] In which of the following endosperm is formed before fertilization. (a) Gymnosperms (b) Angiosperms (c) Pteridophytes (d) All the above. [] The author of the book "Die nature lichen pflazen familien is	
<u>SECTION – B</u> (Marks	=5M)
1. Whose classification is based on Eichler's classification	
2. The botanical name of custard apple is	
3. The pollination mechanism in Lamiaceae is known as	
4. Engler and Prantl system of classification issystem of classification.	
5. Standard, wing and keel petals are present in the flower offamily.	
6. The botanical name of neem is	
7. The winged pollen are present in	
8. The book written by Bentham & Hooker is	
9. The dispersal of pollen grains in Pinus is called as	
10. Pinus needle showsplant characters.	
<u>SECTION –C</u> (1 <u>1.</u> Orthotropous ovule. 2. Haplochelic stomata 3. Monoxylic xylem 4. Moulds 5. Isotype <u>SECTION –D</u> (1 Assignment	Marks=5M) Marks=5M)

Govt. Degree College, Shadnagar	
B.Sc. II Yr Sem III Internal Assessment – I (2021-22)	
DEPARTMENT OF BOTANY	
	(Max. Marks-20)
<u>SECTION</u> – <u>A</u>	(Marks=5M)
 Which RNA carries amino acids to m-RNA during protein synthesis . (a) M RNA (b) t RNA (c) r RNA (d) None [] Who proposed "Sandwich model "? (a) Robertson (b) Hoffman (c) Singer (d) Davidson [] The dihybrid ratio of complimentary genes is	
4. The shifting of a part of one chromosome to another non homologous chromosome is known	as
(a) Duplications (b) Translocation (c) Deletions (d) Inversions []	
5. Organisms having more than two haploid sets of chromosomes are called	
(a) Polyploids (b) Monosomic (c) Nullisomic (d) Hypoploidy []	
<u>SECTION</u> – <u>B</u>	(Marks=5M)
1. Chromosomes which remain condensed during interphase is called	
2. Purines are	
3. Monohybrid Incomplete dominance ratio is	
4. Dihybrid Phenotypic ratio is	
5. If one extra chromosome is added to the diploid it is called	
<u>SECTION</u> – <u>C</u> 1. Linkage 2.Test cross 3. Epistasis 4. Mitosis 5. Plasmid.	(Marks=5M)
<u>SECTION</u> – <u>D</u> ASSIGNMENT	(Marks=5M)

Govt Degree College, Shadnagar

Internal Assessment, Department of Botany B.Sc {B.Z.C& B.Z.S.} III year

Bio Diversity & Human Welfare

Name of the studentHall Ticket No:	
Multiple choice questions	10x1/2=5M
1refers to the protection of biodiversity for its sustainable use ()	
a)Preservation b)Conservation c) Rehabilitation d) Biotransformation	
2.Which of the following is an in-situ method of conservation?	()
a)Gene Bank b)Sacred Groves c)Cryopreservation d)Botanical Garden	
3.The basic unit for conservation of genetic diversity is()	
a)Allele b)Organisms c)Population d)Biome	
4. Species which protect other species and need much space are known as	()
a)Umbrella species b) Charismatic Species c)Indicator Species d) Recreationa	I
5is an intro technique fpr collection and storage of germplasm ()	
a)Thawing b)Centrifugation c)Tissue culture d) None	
6. These types of forests are found in western extent of Himalaya's ()	
a) Alpine forest b) Moist tropical forests c) Montanae temperature forest d) S	Subalpine forest
7. Which of the following is an ornamental shrub?() a)Bauhinia b)Bougainvillea c)Pongamia d)Silver oak	
8. Vit E is found in which of the following fruits? ()	
a)Kiwi b)Avocado c)Cranberries d) all of the above	
9. Which among the following is the most valuable timber yielding plants of family	v Verbenacaeae()
a)Indian rose wood b)Teak c)Red sanders d) Nallamaddi	
10. Which of the following fruits or nuts does not belong to family Anacardiaceae	? ()
a) Mango b) Cashewnut c)Pistacho Nut d)Banana	

Fill in the blanks 10x1/2=5M.
1. Species which are sensitive to disturbances and human interference are known as
2. The seed which can be store for longer duration are known as
3are highly restricted areas for conservation of flora, fauna and landscape
4. Plants contribute aboutof world 's gross Domestic product (GDP).
5city is also known as green city
6. Apple belongs to family
7. Ornamental plants are cultivated forpurpose
8. Example of avenue trees
9 Forest cover% of land in India
10are the frozen vaults meant for preserving the genetic material
Short answer questions 5X1=5 Marks
1.IUCN
2 Species diversity
3. Sacred grove
4. Pollen banks
5. Sanctuaries

Govt Degree College, Shadnagar

Internal Assessment, Department of Botany B.Sc {B.Z.C} Ilyear

Anatomy & Embryology Paper III

lame of the studentHall TicketNo:
Aultiple choice questions 10x1/2=5M
. Who is the Father of Indian Angiosperm Embryology ()
) P. Maheshwari b) R.M kapil c) Venkata rao d)B.G.L Suang
. The sporangia in which microsperos are produced ()
)Mega sporangia b) Micro sporangia c) Oospore d)Egg
The stark of ovule is called()
)chalaza b)Ferniculus c)Integuments d)Ovary
. The single cotyledon of monocot embryo is called ()
)Aril b)Suspensor c) Scutellum d) Caruncle
. Ovule in which micropyle , chalaza &funiculus are arranged in straight line ()
)Orthotropous b)Anatropous c)Campylotropous d)Circinotropous
5.Polygonum type of embryo is ()
)Monosporic type b)Bisporic c)Tetrasporic d) None
The process of transfer of pollen grains from anther to stigma is called ())Fertilization b)Pollination c)Embryos d)None
. The arrangements of male & female reproductive organs at different levels in a bisexual flower is called (
)Hetrogamy b) Dichogamy c) Protogyny d) Protandry
tranfer of pollen grains yhrough wing is known as ()
) Entemophyly b)Hydrophyily c)Anemophily d)Hydrophyly
0. The transfer of pollen grains from the anther of an flower to the stigma of another flower (
) Cross pollination b) Self Pollination c) Xenogamy d)None

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Fill in the blanks	10x1/2=5M.
1. The angiosperms are characterized by presence of 2.	
The collective name for male reproductive structure is	
3. The layer of cells present in inner to epidermis in anther wall is called	
4. The union of male & female nucleus is known as	
5.The occurence of more than one embryo in a seed is known as	
6. An endosperm with uneven surface is calledendosperm	I
7. Inovule , the body of the ovule is bend more or less at right angle	e to the funicle
8. The ovules having only one integument are known asovules	
9. Production of unisexual flower is called	
10. The pollen tube enters into ovule through chalaza is called	
Short answer questions 5X1=5 Marks.	
1 Microsporogenesis	
2. Tapetum	
3. Double fertilization	
4. Nucellar endosperm	
5. Apomixis	

Govt Degree College Shadnagar.

Internal Assessment, Department of Botany

B.Sc {B.Z.C & B.Z..S.} Iyear Micro Diversity of lower Plants

Name of the studentHallTicket No:	
Multiple choice questions	10x1/2=5M
1. Bacteria was first observed by ()
a) A.Vanleewenhoek b) Robert son c)Calvin d) None	
2. Cocci cells occurs in pairs ()	
a) Mono coccus b) Diplo coccus c)Strepto coccus d)Sarc	ina
3.Flower less plants are called()	
a) Gymnospermae b) Bryophyta c) Crytogams d)Thallophyta	
4. Volvox belongs to class ()	
a) Chlorophyceae b)Xanthophyceae c)Pheophyceae d) Dinophyc	ceae
5. Life cycle of Volvox is ()	
a) Diplontic b) Haplontic c) Isomorphic d) None	
6. Asexual reproduction by zoospores takes place during	()
a) Favourable conditions b) Unfavourable conditions c) Rainy seasor	d) Summer season
7. Female reproduction structure in algae is called() (a)Oogonia b) Oospore c)Nucule d) Globule	
8. Reserve food material in Ectocarpus is ()	
a) Mannitol b) Laminarin starch c)Floridean Starch	d) Pyrenoids
9. Example of isomorphic alternation of generations is ()
a) Polysiphonia b)Volvox c)Ectocarpus d)Chara	
10. Bacteria that grow in absence of oxygen are called	()
a) Aerobic b)Anaerobic c)Chemosynthetic d) None	

a)

Fill in the blanks	10x1/2=5M.	
1. Algae which grow in ussue of animal are_algae.		
2.Study of algae is called		
3. Theare concerned with storage of st	arch	
4are endophytic algae living in roots	of Cycas	
5. The Oedogonium filaments that bears andro spora	ngia and oogonia are called as	
6.Chara is aalgae		
7. Ectocarpus shows Alternation	ı of generations	
8. Female reproductive structure in Polysiphonia is		
9.The life cycle of Chara is		
10derive energy by oxi	dation of reduced Sulphur compounds	
Short answer questions 5X1=	-5 Marks.	
1. Autotrophic bacteria		
2. Coenobium		
2 Cap calls		
s. cap cells		
4. Plurilocular sporangia		
5. Dwarf male		