ALL KERALA BHAVAN'S SCHOLARSHIP EXAMINATION 2015-2016

CLASS: XI (SCIENC	CE)	TIM	E: 90 Min.		
		MAF	MARKS: 100		
	SECT	ION - A			
1 0		LISH			
a) alien	ay from justice or the la b) recluse	aw is called a c) itinesant	d) fugitive		
Choose the correcta) inferior	et antonym for the word b) native	l 'summit'. c) base	d) rare		
 Pick out the authors a) Kamala Das c) Walt Whitman 	or of the poem 'the voic	te of the rain'. b) Sherly Toulson d) Elizabeth Jennings			
 Which of the followard versatile 	wing words is the syno b) crippling		d) tyrannical		
	which means the sam b) accomodate	e as 'come to terms with'. c) conclude	d) tolerate		
	of the word 'haphazar b) systematic		d) logical		
7. His heart attack w a) on	vas brought b) into	by too much stress of wor c) out	rk d) over		
 The meaning of the all among other the clinical in addition to 	eʻphrase' <u>inter-alia</u> is nings	b)among enemies d) between enemies			
	PH	YSICS			
		ven by $V = at + \frac{b}{t+c}$. The	dimension		
of a, b, c are response. a) LT -2, L, T	b). L ² , T, LT ² ,	c) LT ² , LT, L	d) L, LT, T^2		
). What will be the ef	fect on horizontal rar ne angle at projector s	age of a projectile when it same, it becomes	 ·		
a) 4 times	b) 8 times ng with constant velo	c) 2 times ocity along a line parallel respect to origin	to x-axis away from		
a) is zero c) goes on decreas		b) is constant d) goes on increasin			

12.A physical quantity 1%, 3%, 4% and 2% a) 24%	$\rho = a^3b^2 / c^3d$. The respectively. What b) 12%	t is the percentage of the city of the cit	error in density ρ ?	
-	He stands on a w form acceleration o	veighing scale in the of 5m/s². What wou	lift, which is moving ld be the reading on the	
scale? a) Zero	b) 400N	c) 800N	d) 1200 N	
14. The radii of circular respectively. If the		ites A and B of the c hen speed of satellit		
a) 3v/4	b) 6v	c) 12v	d) 3v/2	
centre. An insect i	s at a point near to to reach its othe ne disc:	he rim of the disc. To rend. During the job	l axis passing through its The insect now moves alon ourney of the insect, the sly decreases ases and then decreases	ga
		ance between two plesspeed of the car is_c) 50km/hr	aces at 40km/hr and the d) 60km/hr	
	·	CHEMISTRY		
17. When the temper a) increases c) remains cons	b) de	l, surface tension of ccreases nows irregular behav		
18.A process in whi			the system is called c d) isolated	
19.Deuterium nucl				
a) 1p + 1n	b) 2p + 0n	c) 1p + 1 <i>ē</i>	d) 2p + 2n	
a) [Ar] 4s13d8	b) [Ar] 4s ²	1 ²⁺ ion is 3d ¹⁰ 4p ¹ c) [Ar] 4s ¹ Mg and K, the correc		
character is	·		•	
a) B>Al>Mg>K	b) Al>Mg>	·B>K c) Mg>Al	>K>B d) K>Mg>Al>B	
22. Which of the fo	llowing has net di	polemoment?		
a) CCl ₄	b) BF ₃	c) NH ₃	d) CO ₂	
23. The number of	antibonding elect	rons in 02 ⁻ molecul	ar ion is	
a) 8	b) 6	c) 5	d) 4	
24.Among the foll a) Na ₂ O ₂		gnetic compound i c) N ₂ O	d) KO ₂	

GENERAL KNOWLEDGE

25	5. Mr. Sanjiy Chat recently. Name	urvedi and Mr.Anshı the award.	a Guptha received a	very prestigious award		
	c) Nobel peace	ce prize prize	b) Rajiv Gandhi Sadbhav Award d) Ramon Magsaysay Award			
26	5. The power to do a) Parliament	ecide an election peti b) Supreme Court	tion for the state is c) High Court	vested in the d) Election High Commission		
27		orlds largest country b) China				
28	B. Which is the la a) Ganga	rgest river in Asia? b) Brahmapı	uthra c) Yangtze	d) Bias		
29	9.In which count a) South Africa	ry Buffalo Park Crick a b) New Zeala	tet Stadium is situa and c) India	ted? d) Australia		
			I.Q			
30	The mean of for is	ır numbers a,b,c,d is	s 100.If c=70, then	mean of remaining numbers		
	a) 30	b) 85/2	c) 170/3	d) 110		
31	.Vehicle is coded temple, then wh	nere is the tressure o	of huge amount of k	t,sweet as house, house as nowledge hidden?		
	a) book	b) sweet	c) vehicle	d) flower		
32	a. If A is south of a) northwest	B and C is to the earb) southwest	st of B, in what dire c) northeast	ection is A with respect to C? d) southeast		
	a) atmosphere	emperature as isoba b) latitude	c) wind	d) pressure		
34	.Karim ranks 16	th from the top in a c	class of 49 students	.What is his rank from the		
	bottom? a) 33 rd	b) 34 th	c) 36 th			
	Section	- 1 mort	ECTION – B s – Part I, Part II, o parts only of Sec	Part III and Part IV ction B		
			- MATHEMATICS			
1.	Domain of the f	unction $f(x) = \frac{1}{\sqrt{2x-1}}$ b) $(3/2, \infty)$	is c) [3/2,∞)	d) None of these		
	a) N- [0/2]					

BVM ELAMAKKARA

•			
	>	b, $c > 0$, then	d) as a t
2. If a b c are real	numbers such that a ≥ b) ac ≥ bc	c) ac > bc	d) ac $<$ bc
a) ac < bc	b) ac \geq bc s of x^{-7} and x^{-8} in the ex	1	omial 41
a, ac <u>=</u> 50	,	pansion of $(2+\frac{2}{3x})^n$ are	equal, then
If the coefficient	s of x^{-7} and x^{-8} in the ex	Pers	
of the coomercial		c) 45	d) 55
n =a) 56	b) 15	c) 40	
,	,		
4. The value of	1 - tan ² 15° is is	·	
4. The value of	1 +tan ² 15°	0.13/2	d) 2
` .	DI S		•
a) 1	* ***	averybody else. The	total number of
5. Everybody in a re	oom shakes hands with	every body	is
handshakes is 60	oom shakes hands with 5. The total number of b) 12	persons in the	d) 14
a) 11	b) 12	c) 13	,
6. If $\frac{1+i}{1-i}$ = 1, then f	ind 'x' for all n∈N?		•
	b) x=4n	c) $x=2n$	d) $x=4n+1$
a) $x = 2n+1$	0) X 111		
7 If $ z-2 = 1$ the	n Re (z) is equal to	·	
7. If $ \underline{z}-\underline{z} = 1$, the	n Re (z) is equal to		
[2-4]	ы о	c) -3	d) None of these
a) 3.	b) O	-,	11096
8 Colution act of 1	$0 \cdot 1 \cdot 1 \cdot v + 4 \cdot is$		
8. Solution set of	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1
3 (24) 11 (45)	b) [2 4) [1 (4 6)	c) [2.4] U [4.6].	d) None of these
a. (2,4) 0 (4,0)	0) [2, 4) 0 (1,0)	0) [2, 1] + [1, 1]	at a route of tilese
	PART – II	- BIOLOGY	
		-,	
Healing of wounds		-,	
 Healing of wounds a) apical meristem 	in plants takes place	by the activity of	 m
 a) apical meristem 	in plants takes place	by the activity of b) lateral meriste	
a) apical meristemc) secondary meri	in plants takes place stem	by the activity of b) lateral meriste d) intercalary me	
a) apical meristemc) secondary meri2. Which of the follow	in plants takes place stem	by the activity of b) lateral meriste d) intercalary me	
 a) apical meristem 	in plants takes place stem ing is known as Peati	by the activity of b) lateral meristed d) intercalary me moss?	ristem
a) apical meristemc) secondary meri2. Which of the follow	in plants takes place stem	by the activity of b) lateral meriste d) intercalary me	
a) apical meristemc) secondary meri2. Which of the followa) Sphagnum	in plants takes place stem ing is known as 'Peati b) Funaria	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum	ristem
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tal	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum ces place in	ristem
a) apical meristemc) secondary meri2. Which of the followa) Sphagnum	in plants takes place stem ing is known as 'Peati b) Funaria	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum ces place in	ristem d) Marchantia
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of synamical pachytene 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tal b) diplotene	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum	ristem
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinog 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tal b) diplotene	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum ces place in	ristem d) Marchantia
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tal b) diplotene gen is secreted by	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum ces place in c) zygotene	d) Marchantia —· d) leptotene
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinog a) mucus cells 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tak b) diplotene gen is secreted by b) parietal cells	by the activity of b) lateral meristed) intercalary memoss? c) Polytrichum ces place in c) zygotene c) chief cells	ristem d) Marchantia
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinog a) mucus cells 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tak b) diplotene gen is secreted by b) parietal cells	by the activity of b) lateral meristed) intercalary memoss? c) Polytrichum ces place in c) zygotene c) chief cells	d) Marchantia —· d) leptotene
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinog a) mucus cells 5. Among the following 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tal b) diplotene gen is secreted by b) parietal cells which one is a urocl	by the activity of b) lateral meristed) intercalary memoss? c) Polytrichum ces place in c) zygotene c) chief cells	d) Marchantia —· d) leptotene
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinog 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tak b) diplotene gen is secreted by b) parietal cells	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum ces place in c) zygotene c) chief cells	d) Marchantia d) leptotene d) oxyntic cells
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinos a) mucus cells 5. Among the following a) amphioxus 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tal b) diplotene gen is secreted by b) parietal cells (which one is a urocl b) ascidia	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum ces place in c) zygotene c) chief cells hordata? c) adamsia	d) Marchantia —· d) leptotene
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinos a) mucus cells 5. Among the following a) amphioxus 6. The most abundant 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tal b) diplotene gen is secreted by b) parietal cells (which one is a urocl b) ascidia	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum ces place in c) zygotene c) chief cells hordata? c) adamsia	d) Marchantia d) leptotene d) oxyntic cells
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinog a) mucus cells 5. Among the following 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tak b) diplotene gen is secreted by b) parietal cells (which one is a urocl b) ascidia protein in animal wo	by the activity of	d) Marchantia d) leptotene d) oxyntic cells
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinog a) mucus cells 5. Among the following a) amphioxus 6. The most abundant a) insulin 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tak b) diplotene gen is secreted by b) parietal cells (which one is a urocl b) ascidia protein in animal wo b) collagen	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum ces place in c) zygotene c) chief cells hordata? c) adamsia rld is c) trypsin	d) Marchantia d) leptotene d) oxyntic cells d) ophiures
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinog a) mucus cells 5. Among the following a) amphioxus 6. The most abundant a) insulin 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tak b) diplotene gen is secreted by b) parietal cells (which one is a urocl b) ascidia protein in animal wo b) collagen	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum ces place in c) zygotene c) chief cells hordata? c) adamsia rld is c) trypsin	d) Marchantia d) leptotene d) oxyntic cells
a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinon a) mucus cells 5. Among the following a) amphioxus 6. The most abundant a) insulin 7. Class of enzyme cont	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tak b) diplotene gen is secreted by b) parietal cells (which one is a urocl b) ascidia protein in animal wo b) collagen	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum ces place in c) zygotene c) chief cells hordata? c) adamsia rld is c) trypsin	d) Marchantia d) leptotene d) oxyntic cells d) ophiures
 a) apical meristem c) secondary meri 2. Which of the follow a) Sphagnum 3. Dissolution of syna a) pachytene 4. Proenzyme pepsinos a) mucus cells 5. Among the following a) amphioxus 6. The most abundant 	in plants takes place stem ing is known as Peatr b) Funaria ptonemal complex tak b) diplotene gen is secreted by b) parietal cells (which one is a urocl b) ascidia protein in animal wo b) collagen	by the activity of b) lateral meriste d) intercalary me moss? c) Polytrichum ces place in c) zygotene c) chief cells hordata? c) adamsia rld is c) trypsin	d) Marchantia d) leptotene d) oxyntic cells d) ophiures

7.

8	. L а) 3 molecules presen	t in a bivalent is			
	u	, , 3	b) 4	c) 2	ď) 6
			PART III - COMPU	TER SCIENCE		
1.	a)	ranslating the problem pplication must do is coding creating algorithm	m ntoto			
2.	W a)	Thich construct will your switch statement	ou use to final the st	um of first 10 na c) ifelse loop	tural numb d) none	ers?
3.	Id a)	lentify the ternary op	eration from below b) %	c) >>		d) ?:
4.	W	That will be the output cout $<++\frac{a}{2}$;	t if a=11 initially			
	a)	3	b) 5.5	c) 5		d) 6
5.6.	a)	error is the m Syntax nti virus is a type of v	b) Logical	c)Semar	ntic	d) Runtime
	a)	application software	e b) utility sof	ware c) systen	n software	d)firmware
7.		hat does c++ append space	to the end of a string b) #sign	ng literal constar c) * sign	nt? d) nul	l character
8.		hich of the following class	is a valid variable n b) friend	ame? c) #onHand	d) nor	ne of these
	PART IV - INFORMATICS PRACTICES					
		Which of the follows	b) drop	c) delete		d) update
	2.	In Java NetBeans, values al string	what is the datatype b) char	c) int	au.	d) boolean
	3.	Identify the iteration a) ifelseif	n statement from th	e following. c) switch	hcase	d) get Text()
		The property of jPas	sewordField1 that n	narks the charac	cters entere	ed into it is
	4.	a) model	b) password	c) echoo	har	d) text
	_	Name the function	used to extract the	value selected b	y the user	from a
		jcomboBox1 during a) getSelectedValue	e () b) getSelecte	edItem () c) g	etText ()	d) getItem ()
	6.	Identify the run-tima) gettext()	the error from the follows: b) $x^*y=Z$ c) div	owing. ide by zero	d) in	ta=10;b=10;

7. Identify the correct statement. a) select * from emp where ename=NULL; b) select * from emp where ename is NULL; c) select * from emp where ename in NULL; d) select * from emp where ename="NULL"; 8. Identify the RDBMS software from the following: a) Oracle b) Java a) Zoral b)khosrove

d) Windows c) SQL

TIE BREAKER

- 1. Aram considered his cousin Mourad as the natural descendant of whom? c)John Byre d)Fetvajin
- 2. What is the relation between orbital and escape velocity?

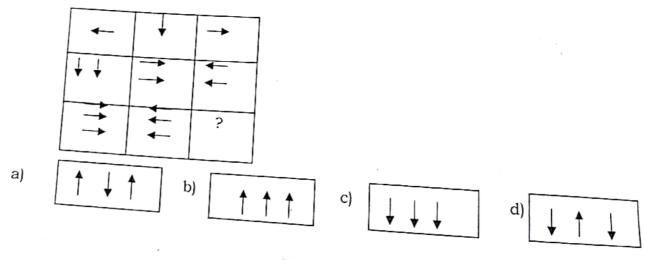
a)
$$V_e=2V_o$$

b)
$$V_e = \sqrt{2} Vo$$

c)
$$V_c = \frac{v_0}{2}$$

d)
$$V_e = \frac{v_o}{\sqrt{2}}$$

- 3. A gas will approach ideal behaviour;
 - a) low temperature and low pressure
 - b) low temperature and high pressure,
 - c) high temperature and high pressure
 - d) high temperature and low pressure.
- 4. Sabin Award is given for the conservation of _____ a) amphibians b) reptiles c) birds d) corals
- 5. Which is the missing tile?



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