SSUUGCET

BSC (HONS) AGRICULTURE/HORTICULTURE/AGRIBUSINESS MANAGEMENT SAMPLE QUESTIONS

PHYSICS

- 1. Ohm's law is valid when the temperature of the conduct or is
 - a. Constant
 - b. Very high
 - c. Very low
 - d. Varying
- 2. The law of equipartition of energy is applicable to the system whose constituents are
 - a. In random motion
 - b. In orderly motion at rest
 - c. At rest
 - d. Moving with constant speed
- 3. The unit of power is
 - a. Kilowatt
 - b. Kilowatt hour
 - c. Dyne
 - d. Joule
- 4. A galvanometer may be converted into ammeter or a voltmeter. In which of the following cases the resistance of the device so obtained will be the largest?
 - a. Voltmeter of range 10V
 - b. Voltmeter of range 1V
 - c. Ammeter of range 10A
 - d. Ammeter of range 1A
- 5. In insulators
 - a. Conduction band is filled with electrons and valence band is empty
 - b. Valence band is partially filled with electrons
 - c. Conduction band is partially filled with electrons
 - d. Conduction band is empty and valence bond

CHEMISTRY

1.	The group	The group which does not enter directly in the benzene ring is		
	a.	$(CH_3)_2$ CH-		
	b.	$-NO_2$		
	c.	$-C_2H_5$		
	d.	-NH ₂		
2.	ZnO is wh) is white when cold while it is yellow when hot, due to		
	a.	Frenkel defect		
	b.	Nonstoichiometric crystal defect		
	c.	Schotky defect		
	d.	Impurity		
3.	While aqueous solution of ALCl ₃ is acidic towards litmus that of NaCl is not. This is because			
	of			
	a.	Oxidation and Reduction		
		Hydrolysis		
		Solubility		
		Only oxidation		
4.	When ami	monia is passed over heated cupric oxide the gas produced is		
	a.	N_3		
	b.	N		
	c.	N_2		
	d.	N_2		
5.	Brownian movement is characteristic of			
	a.	Colloid		
	b.	Crystalloids		
	c.	True solution		
	d.	none of these		

MATHEMATICS

- 1. The area bounded by the curve $y=2x-x^2$ and the straight line y=-x is
 - a. $\frac{9}{2}$
 - b. $\frac{35}{6}$
 - c. $\frac{43}{6}$
 - d. $\frac{13}{4}$
- 2. The area bounded by the curve $y = x \sin x$ and the x-axis between x=0 and x=2x is
 - a. 4π
 - b. 3π
 - c. 2π
 - d. π
- 3. The solution of $\frac{dy}{dx} + ycotx = 2cosx$, is
 - a. $2y = \sin x \cos 2x + c$
 - b. $2y \sin x + \cos 2x = c$
 - c. $2y \sin x \cos 2x = c$
 - d. $2y \sin x = c \cos 2x$
- 4. If $(x^2 ay) dx (ax y^2) dy = 0$ and y(0) = 0, then
 - a. x3+y3+3axy(x+y)=0
 - b. x3+y3- 3axy=0
 - c. x3+y3+3axy=0
 - d. x3-y3- 3axy=0
- 5. The distance between the lines 4x+3y=9 and 8x+6y=15, is
 - a. 0.3
 - b. 3
 - c. 0.5
 - d. 6

BIOLOGY

	a.	Mycorrhiza			
	b.	Orchid			
	c.	Lichen			
	d.	Puffball			
2.	. Plasmids found in the cells of bacteria are molecules of				
	a.	DNA			
	b.	RNA			
	c.	Protein			
	d.	DNA bound by histones			
3.	3. Who develop vaccine first time?				
	a.	Edward Jenner			
	b.	Louis Pasteur			
	c.	John Salk			
	d.	J. Lister			
4.	4. Which is the first stable product of CO ₂ fixation in C ₃ plants?				
	a.	PGA			
	b.	Ribulose phosphate			
	c.	Glucose			
	d.	Starch			
5.	The light 1	reaction of photosynthesis supply the calvin cycle with			
	a.	ATP and NADPH			
	b.	CO ₂ and ATP			
	c.	H ₂ O and NADPH			
	d.	Light energy			

1. Symbiotic association between fungus and root of higher plant is

APTITUDE

What least number must be subtracted from 1672 to obtain a number which is completely divisible by 17?			
a. 6			
b. 7			
c. 8			
d. None of these			
The HCF of two numbers is 11 and their L.C.M is 7700. If one of the numbers is 275, there the other is			
a. 308			
b. 318			
c. 283			
d. 279			
If $1.5x = 0.04y$, then the value of $\frac{y-x}{y+x}$ is			
a. $\frac{73}{77}$			
b. $\frac{7.3}{77}$			
c. $\frac{730}{77}$			
d. None of these			
A number is doubled and 9 is added. If the resultant is trebled, it becomes 75. What is that number?			
a. 8			
b. 6			
c. 3.5			
d. None of these			
Rohan's age after 15 years will be 5 times his age 5 years back. What is the present age of Rohan?			
a. 10			
b. 12			
c. 15			
d. None of these			

REASONING

- 1. A woman introduces a man as the son of the brother of her mother. How is the man related to the woman?
 - a. Cousin
 - b. Son
 - c. Nephew
 - d. Uncle
- 2. If DIAMOND is coded as VQYMKLV, how is FEMALE coded?
 - a. TUMYNU
 - b. UVNZOV
 - c. UVNYNV
 - d. TVNYNV
- 3. Find the next two terms in the series: A, C, F, J, ?,
 - a. O, U
 - b. M, O
 - c. L, P
 - d. R, V
- 4. Soap is related to Wash in the same way Broom is related to...?.....
 - a. Sweep
 - b. Dust
 - c. Clean
 - d. Floor

5.

3C	2B	4A
27A	?	64B
9C	4A	16B

- a. 8C
- b. 12B
- c. 16C
- d. 18C