KHALSA COLLEGE AMRITSAR MODEL TEST PAPER FOR ENTRANCE TEST OF B.Sc. (AGRICULTURE AND FOOD SCIENCE & TECHNOLOGY) 2017

General Instructions for Students

- 1. Every candidate should carry his/her valid Roll No. cum Admit Card to the Entrance Test. No candidate without the valid Roll No. cum Admit Card will be allowed to enter the examination centre.
- 2. The question paper will be of Two Hours duration and will comprise of **Hundred** Multiple Choice Questions of **One** mark each.
- 3. There will be four sections, viz; Physics, Chemistry, Biology OR Mathematics and General Awareness of the Subject.
- The candidates with 10 + 2 (Medical) will opt the section of Biology while the candidates with 10+2 (Non-Medical) will opt the Mathematics Section.
- 5. The candidate has to mark the right option against the question number in the OMR sheet with black **pen.** The circles marked with pencil or blue pen will not be marked.
- 6. There will be no negative marking.
- 7. The OMR must be handed over to the Room Supervisor even if candidate has not filled any option.
- 8. No candidate will be allowed to leave the examination hall before two hours.
- 9. Don't write/make any identification marks(s)/religions/symbols/slogan(s) on the answer books.
- 10. The candidate must ensure that his OMR has been duly stamped.
- 11. Please ensure that you have signed the attendance sheet.
- 12. Mobile Phones and other electronic gadgets such as Bluetooth etc. are strictly prohibited in the Examination Centre.

	(Maliala Chaire Theory)
	(Multiple Choice Type)
im	e Allowed : 2 hours Max Marks : 100
	PHYSICS
1.	Three different capacitors are connected in series. Then :
	A) they will have equal charges B) they will have same potential
	C) both 1 & 2 D) none of these
2.	A wire has a resistance of 10Ω . It is stretched by one-tenth of its original length. Then its resistance will
	be
2	A) 9Ω B) 10Ω C) 11Ω D) 12.1Ω
3.	Time taken by a 836W water to heat one litre of water from 0°C to 40°C is
	A) 50s B) 100s C) 150s D) 200s
4.	If the electric current in a lamp decreases by 5% then power output decreases by
-	A) 25% B) 10% C) 5% D) 20%
5.	The unit of permittivity of free space ε_0 is $(1 + 1)^2 (21 +$
	A) Coulomb²/Newton-metre²B) Coulomb²/(Newton-metre)²C) Coulomb/Newton-metreD) Newton-metre²/ Coulomb²
,	· ·
6.	A charged spherical shell does not produce an electric field at any
	A) interior point B) outer point
-	C) beyond 2 metres D) beyond 10 metres
1.	Work done in moving a unit positive charge through a distance of x metre on an equipotential surface is A) x joule B) $1/x$ joule C) zero D) x^2 joule
0	
8.	In bringing an electron towards another electron, the electrostatic potential energy of the system A) remains same B) becomes zero C) increases D) decreases
0	A) remains sameB) becomes zeroC) increasesD) decreasesAn electron is moving along the positive X-axis. You want to apply a magnetic field for a short time so
9.	that the electron may reverse its direction and move parallel to the negative X-axis. This can be done by applying the magnetic field along
	A) X-axis only B) Y-axis only C) Z-axis only D) Both Y and Z axis
0.	The current sensitivity of a moving coil galvanometer increases by 35%. When its resistance is increased by a factor 3, the voltage sensitivity of galvanometer changes by a factor
	A) 35% B) 45% C) 55% D) None of the above
1.	When a charged particle enters a uniform magnetic field, its kinetic energy
	A) remains constant B) increases C) decreases D) becomes zero
2.	Above Curie's temperature
	A) a paramagnetic substance becomes ferromagnetic
	B) a ferromagnetic substance becomes paramagnetic
	C) a paramagnetic substance becomes diamagnetic
	D) a diamagnetic substance becomes paramagnetic

	1	1.		a hale of the	rea industances of 21
What is the minimum value of induction that can be obtained with the help of three inductances of 2E 3H and 6H?					
A) 1/6 H B) 1/3H		C)	1H	D)	11H
The reading of AC voltmeter is 220 V. Wh	at is 1	the pe	ak voltage?		
A) 200V B) 220 V		C)	240 V	D)	None of the these
If the power factor changes from $\frac{1}{2}$ to $\frac{1}{4}$ t	hen v	vhat is	the increase in	impedance	in AC?
A) 29% B) 50%		C)	25%	D)	100%
Which of the following electromagnetic radiation has the smallest wavelength?					
A) Microwaves B) Ultraviolet		C)	X-rays	D)	Gamma ray
Two coherent sources have wavelengths λ	A and	$1 \lambda_{\rm B}$. T	Then		
A) $\lambda_A = \lambda_B$ B) $\lambda_A > \lambda_B$				D)	None of these
Rainbow is formed due to combination of					
A) refraction and absorption	B)	dispe	ersion and focusi	ng -	
C) refraction and scattering	D)	dispe	ersion and total in	nternal refle	ection
To get three images of a single object, one	shoul	ld hav	e two plane miri	rors at an ai	ngle of
A) 60° B) 90°		C)	120°	D)	30°
Two thin lenses of focal length f_1 and f_2 are	e in co	ontact	and coaxial. Th	e power of	the combination is
Inverse square law for the illumination is va	lid fo	r			
A) isotropic point source			h light		
C) cylindrical source	D)	all ty	pe of sources		as man charter in
How will an image produced by a lens cha	ange,	if half	the lens is wrap	oped in blac	k paper ?
A) There will be no effect	B)	The s	size of image wi	ll be reduce	d to one half
C) The image will disappear	D)	The b	orightness of the	image will	be reduced
It is possible to understand nuclear fission of	on the	e basis	s of the		
A) meson theory of nuclear forces					
B) proton-proton cycle					
C) independent particle model of the nucleus					
D) liquid drop model of the nucleus					
A radioactive substance decays to $\frac{1}{2}$ th of its initial activity in 40 days. The half life of the radioactive					
10					
	D)	5			
A) 20 C) 10	Б) D)				
	D)	2.5			
	or				
When n-p-n transistor is used as an amplified		halas	move from emi	itter to have	
	3H and 6H? A) 1/6 H B) 1/3H The reading of AC voltmeter is 220 V. Wh A) 200V B) 220 V If the power factor changes from ½ to ¼ t A) 29% B) 50% Which of the following electromagnetic rad A) Microwaves B) Ultraviolet Two coherent sources have wavelengths λ A) $\lambda_A = \lambda_B$ B) $\lambda_A > \lambda_B$ Rainbow is formed due to combination of A) refraction and absorption C) refraction and scattering To get three images of a single object, one A) 60° B) 90° Two thin lenses of focal length f_1 and f_2 are A) $\sqrt{(f_1+f_2)}$ B) $\sqrt{(f_2/f_1)}$ Inverse square law for the illumination is va A) isotropic point source C) cylindrical source How will an image produced by a lens cha A) There will be no effect C) The image will disappear It is possible to understand nuclear fission A) meson theory of nuclear forces B) proton-proton cycle C) independent particle model of the nuclear D liquid drop model of the nuclear	3H and 6H?A) 1/6 HB) 1/3HThe reading of AC voltmeter is 220 V. What is:A) 200VB) 220 VIf the power factor changes from ½ to ¼ then vA) 29%B) 50%Which of the following electromagnetic radiationA) MicrowavesB) UltravioletTwo coherent sources have wavelengths λ_A andA) $\lambda_A = \lambda_B$ B) $\lambda_A > \lambda_B$ Rainbow is formed due to combination ofA) refraction and absorptionB)C) refraction and scatteringD)To get three images of a single object, one shouldA) $\delta 0^\circ$ B) 90° Two thin lenses of focal length f_1 and f_2 are in complexity of the illumination is valid forA) $\sqrt{f_1+f_2}$ B) $\sqrt{f_2/f_1}$ Inverse square law for the illumination is valid forA) isotropic point sourceB)C) cylindrical sourceD)How will an image produced by a lens change,A) There will be no effectB)C) The image will disappearD)It is possible to understand nuclear fission on theA) meson theory of nuclear forcesB) proton-proton cycleC) independent particle model of the nucleusD) liquid drop model of the nucleusA radioactive substance decays to $\frac{1}{16}$ th of its initialsubstance expressed in days is	3H and 6H?A) 1/6 HB) 1/3HC)The reading of AC voltmeter is 220 V. What is the perA) 200VB) 220 VC)If the power factor changes from ½ to ¼ then what isA) 29%B) 50%C)Which of the following electromagnetic radiation has the following electromagnetic radiation following electromagnetic following electromagnetic following electromagnetic radiation following electromagnetic radiation following electromagnetic	3H and 6H? A) 1/6 H B) 1/3H C) 1H The reading of AC voltmeter is 220 V. What is the peak voltage? A) 200V B) 220 V C) 240 V If the power factor changes from ½ to ¼ then what is the increase in A) 29% B) 50% C) 25% Which of the following electromagnetic radiation has the smallest wave A) Microwaves B) Ultraviolet C) X-rays Two coherent sources have wavelengths λ_A and λ_B . Then A) $\lambda_A = \lambda_B$ B) $\lambda_A > \lambda_B$ C) $\lambda_A < \lambda_B$ Rainbow is formed due to combination of A) refraction and absorption B) dispersion and focusi C) refraction and scattering D) dispersion and total in To get three images of a single object, one should have two plane mine A) 60° B) 90° C) 120° Two thin lenses of focal length f_1 and f_2 are in contact and coaxial. The A) $\sqrt{f_1+f_2}$ B) $\sqrt{f_2/f_1}$ C) $(f_1+f_2)/2$ Inverse square law for the illumination is valid for A) isotropic point source B) search light C) cylindrical source D) all type of sources How will an image produced by a lens change, if half the lens is wrapped A) There will be no effect B) The size of image will C) The image will disappear D) The brightness of the H is possible to understand nuclear fission on the basis of the A) meson theory of nuclear forces B) proton-proton cycle C) independent particle model of the nucleus D) liquid drop model of the nucleus A radioactive substance decays to $\frac{1}{16}$ th of its initial activity in 40 days substance expressed in days is	A) $1/6$ H B) $1/3$ H C) 1H D) The reading of AC voltmeter is 220 V. What is the peak voltage? A) 200V B) 220 V C) 240 V D) If the power factor changes from ½ to ¼ then what is the increase in impedance A) 29% B) 50% C) 25% D) Which of the following electromagnetic radiation has the smallest wavelength? A) Microwaves B) Ultraviolet C) X-rays D) Two coherent sources have wavelengths λ_A and λ_B . Then A) $\lambda_A = \lambda_B$ B) $\lambda_A > \lambda_B$ C) $\lambda_A < \lambda_B$ D) Rainbow is formed due to combination of A) refraction and absorption B) dispersion and focusing C) refraction and scattering D) dispersion and total internal reflet To get three images of a single object, one should have two plane mirrors at an ant A) 60° B) 90° C) 120° D) Two thin lenses of focal length f_1 and f_2 are in contact and coaxial. The power of A) $\sqrt{(f_1+f_2)}$ B) $\sqrt{(f_2/f_1)}$ C) $(f_1+f_2)/2$ D) Inverse square law for the illumination is valid for A) isotropic point source B) search light C) cylindrical source D) all type of sources How will an image produced by a lens change, if half the lens is wrapped in blac A) There will be no effect B) The size of image will be reduced C) The image will disappear D) The brightness of the image will It is possible to understand nuclear fission on the basis of the A) meson theory of nuclear forces B) proton-proton cycle C) independent particle model of the nucleus D) liquid drop model of the nucleus A radioactive substance decays to $\frac{1}{16}$ th of its initial activity in 40 days. The half fits substance expressed in days is

38. The structure of IF_7 is A) Pentagonal bipyramid B) Square pyramid D) Octahedral C) Trigonal bipyramid 39. The basic building unit of all silicates is A) SiO B) $(SiO_3)^{3*}$ C) SiO₂ D) $(SiO_4)^{4-}$ 40. When an insulator is heated, an electric charge is developed on the face of the insulator crystal. This phenomenon is known as B) paramagnetic effect A) feroelectric effect C) pyroelectric effect D) piezoelectric effect 41. X-ray diffraction studies indicated that the edge length of unit cell of fcc lattice of KF is 537.5 pm. The distance between K⁺ and F⁻ ions is A) 385.3 pm B) 179.3 pm C) 268.3 pm D) 136.3 pm 42. Among the anions CI⁻, SO_4^{-2} , PO_4^{-3} , the coagulating power follows the order A) $PO_4^{-3} > CI^- > SO_4^{-2} = B$ B) $PO_4^{-3} > SO_4^{-2} > CI^-$ C) $CI > SO_4^{-2} > PO_4^{-3}$ D) $SO_4^{-2} > CI > PO_4^{-3}$ 43. Which of the following statements is true of the critical micelle concentration? A) The surfactant molecules decompose B) The surfactant molecules become completely soluble. C) The surfactant molecules dissociate D) The surfactant molecules associate 44. Among the following the one that gives positive iodoform test upon reaction with 12 and NaOH is A) CH₃CH₂CH(OH)CH₂CH₃ B) C₆H₅CH₂CH₂OH C) H₃C-D) PhCHOHCH₃ 45. The reaction between benzaldehyde and formaldehyde in the presence of conc. NaOH gives A) $C_6H_5COONa + CH_3OH$ B) $C_6H_5CH_2OH + HCOONa$ C) $C_6H_5CH_2OH + C_6H_5COONa$ D) CH₃OH + HCOONa 46. Which of the following reactions occur at anode when the electrolysis of CuCl₂ is done using platinum electrode? A) $Cu \rightarrow Cu^{2+} + 2e$ B) $2Cl^{-} \rightarrow Cl_2(g) + 2e$ C) $2H_2O \rightarrow O_2 + 4H^+ + 4e$ D) $2Cu \rightarrow Cu_2^{2+} + 2e$ 47. A solution of naphthalene in benzene has a mole fraction of naphthalene equal to 0.10. What is the molality of the solution? A) 2.3 m C) 3.1 m D) 1.9 m B) 1.42 m 48. The coagulation of 10 ml of gold solution is just prevented by an addition of 1 ml of 10% NaCl in the presence of 0.025 g. of starch. The gold number of starch is : A) 0.25 B) 0.025 C) 25 D) 250 49. For the preparation of p-nitroiodobenzene from p-nitroaniline, the best method is : A) NaNO₂/HCl followed by KI B) NaNO₂/HCl followed by CuCN C) LiAlH₄ followed by I_2 D) NaBH₄ followed by I_2 .

50.	The composition of brown ring obtained during the qualitative detection of nitrates with ferrous sulphat and sulphuric acid corresponds to :					
	A) $[Fe(H_2O)_5NO]^{3+}$ B)	$[Fe(H_2O)_5NO]^{2+}$				
		$[Fe(H_2O)_5NO]$				
	BIC	DLOGY				
51	Pollen culture is used to produce					
211	A) Hybrids	B) Disease resistant plant				
	C) Haploid plant	D) None of these				
52	In grafting contact is made between					
52.	A) Phloem B) Cambium	C) Xylem D) Flower				
53	'Montreal Protocol' is an international treaty to					
55.	A) CO ₂	B) Ozone depleting substances				
	C) CO	D) Nuclear radiation				
51	Bulb helps the vegetative reproduction in					
54.	A) Tomato B) Rye	C) Potato	D) Onion			
55	The first cell of female gametophyte is	0)10000	-,			
55.	A) Anther lobe	B) Megaspore mother cell				
		D) Microspore mother cell				
Fr	C) Pollen before germination	D) wherospore mouler cen				
56.	The grassland in Asia are known as	C) Pamps	D) Savannah			
	A) Prairies B) Veldt	C) ramps	D) Savannan			
57.	Stratification can be observed in	t C) Tropical forest	D) Desert			
	A) Tundra B) Temperate fores		D) Desert			
58.	India became a party to "Convention of Biolog	C) 1993	D) 1998			
	A) 1994 B) 1992		D) 1998			
59.	The acid rain destroys vegetation because it co		DICO			
	A) Nitrates B) H_2SO_4	C) O ₃	D) CO			
60.	The basic component of the smog may be		D) All the shore			
	A) PAN B) PBN	C) Ozone	D) All the above			
61.	Chalazogamy is found in	asphilatere in benzene has a m				
	A) Casurina B) Pisum	C) Pistia	D) Cucurbits			
62.	In gobar gas, the maximum amount is that of					
	A) Butane B) Propane	C) Methane	D) Carbon dioxide			
63.	A virus that can reproduce without killing the h		er to assure out			
	A) Lytic virus B) Retroactive virus		D) Temperate virus			
64.	A deadly disease caused by a virus on the heart muscles,					
	A) Myocarditis. B) Bronchitis	C) Angina D)	Hypertension			

	the second s		iticonnosit 02 -				
65.	Disinfectants are used to destroy bacteria.		roy them due to certain				
	reasons. The need to destroy them is because,						
	A) They decompose garbage						
	B) They may be pathogenic						
	C) They are involved in recycling of material	S					
	D) They are helpful in increasing fertility of so	pil					
66.	Mycobacterium leprae causes leprosy, Corynebacterium diphtheria causes diphtheria and Vibrio comma causes						
	A) Tetanus B) Influenza	C) Cholera	D) Typhoid				
67.	Mutation is						
	A) a factor responsible for plant growth						
	B) a change which affects the offspring of F_2	generation only					
	C) a change that is inherited						
	D) a change which affects the parents						
68.	In the absence of fertilization						
	A) Corpus luteum is formed	B) Corpus luteum degenerates					
	C) Disintegration of myometrium occur	D) Both B & C					
69.	Cleavage in insect is :						
	A) Holoblastic equal	B) Meroblastic discoidal					
	C) Holoblastic unequal	D) Meroblastic superticial					
70.	A partial blockage of fallopian tubes prevents	A partial blockage of fallopian tubes prevents ovulated eggs from reaching the uterus.					
	This would result in						
	A) fertilization not taking place						
	B) fertilization occurring but zygote developing in womb						
	C) fertilization occurring but zygote developing ectopically						
	D) None of these						
71.	Which of the following birth control measures	s can be considered as the safest?					
	A) The use of physical barrier	B) The rhythm method					
	C) Termination of unwanted pregnancy	D) Sterilization techniques					
72.	IUT is	1000 2 + 1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
	A) Intrauterine transplantation	B) Intrauterine technique					
	C) Intrauterine tract	D) Intrauterine transfer					
73.	Yolk sac is non functional in human beings. Some authors are of opinion that it is site of early blood cells formation. It consists of						
	A) Mesoderm inside and endoderm outside	B) Mesoderm inside and ectode	erm outside				
	C) Endoderm inside and mesoderm outside	D) Mesoderm on both side					
74.	Extraembryonic membranes of the mammalian	embryo are derived from					
	A) Inner cell mass B) Trophoblast	C) Formative cells	D) Follicle cells				

75. If different alleles are present in the same genotype then it is called D) polyallelic C) diallelic A) homozygous B) hetreozygous OR MATHEMATICS 51. $A = \begin{bmatrix} a_{ij} \end{bmatrix}_{m \times n}$ is a square matrix, if A) m < nB) m > nC) m = nD) None of these 52. If $\begin{vmatrix} x & 2 \\ 18 & x \end{vmatrix} = \begin{vmatrix} 6 & 2 \\ 18 & 6 \end{vmatrix}$, then x is equal to D) 0 C) -6 $B) \pm 6$ A) 6 53. Which of the following is correct : A) Determinant is a square matrix. B) Determinant is a number associated to a matrix. C) Determinant is a number associated to a square matrix. D) None of these. 54. The function $f': \mathbb{N} \to \mathbb{N}$ given by f(x) = 3x is A) one-one but not onto B) onto D) None of these C) one-one and onto 55. Range of the function $f(x) = \frac{|x-3|}{|x-3|}$ is C) {-2,2} B) {1,2} D) $\{-1,1\}$ A) {-1,2} 56. Value of $\tan^{-1}\left(\frac{3}{4}\right) + \tan^{-1}\left(\frac{4}{3}\right)$ is A) $\frac{\pi}{4}$ B) $\frac{\pi}{3}$ C) $\frac{\pi}{6}$ D) $\frac{\pi}{2}$ 57. Value of k for which $f(x) = \begin{cases} \frac{x^2 - 25}{x - 5} & \text{if } x \neq 5 \\ k & \text{if } x = 5 \end{cases}$ is continuous at x = 5 is : D) 25 B) 15 C) 30 A) 10 58. If $y = \sin^{-1}(e^x)$, then $\frac{dy}{dx}$ is B) $\frac{-e^x}{\sqrt{1-e^{2x}}}$ C) $\frac{e^x}{\sqrt{1-e^{2x}}}$ D) $\frac{-e^x}{\sqrt{1-e^x}}$ A) $\frac{e^x}{\sqrt{1-e^x}}$

A) 1 B) -2 C) 2 D) 3 60. If $f(x) = 7x - 3 \quad \forall x \in \mathbb{R}$, then A) f is strictly increasing function on \mathbb{R} B) f is strictly decreasing function on \mathbb{R} . C) f is neither increasing nor descreasing on \mathbb{R} D) None of these 61. $\int \frac{1}{ax+b} dx$ is equal to A) $\frac{(ax+b)^{-2}}{-2} + c$ B) $\log |ax + b| + c$ C) $\frac{1}{(ax+b)^2}$ D) None of these 62. $\int e^{ax} \sin bx \, dx$ is equal to B) $\frac{1}{a^2}e^2(a\sin bx) + c$ A) $\frac{1}{a^2+b^2}e^{ax}(a\sin bx - b\cos bx) + c$ D) $\frac{1}{a^2+b^2}e^{bx}(a\sin bx)+c$ C) $\frac{1}{h^2}e^{ax}\sin bx + c$ 63. Value of $\int_{1}^{\sqrt{3}} \frac{dx}{1+x^2}$ is A) $\frac{\pi}{3}$ B) $\frac{2\pi}{3}$ C) $\frac{\pi}{6}$ D) $\frac{\pi}{12}$ 64. Area of the region bounded by $y^2 = 9x$, x = 2, x = 4 & the x-axis in Ist quadrant is B) $16 - 4\sqrt{2}$ D) $8 - 2\sqrt{2}$ A) $16 - 2\sqrt{2}$ C) $16 - \sqrt{2}$ 65. Number of arbitrary constants in particular solution of a differential equation of 3rd order as : B) 2 D) 0 A) 3 C) 1

66. General solution of which of the following is $y = c_1 e^x + c_2 e^{-x}$

A)
$$\frac{d^2y}{dx^2} + y = 0$$
 B) $\frac{d^2y}{dx^2} - y = 0$ C) $\frac{d^2y}{dx^2} - 1 = 0$ D) $\frac{d^2y}{dx^2} + 1 = 0$

67. If l, m, n are direction cosines of vector \vec{r} , then

59. Slope of tangent to the curve $y = 2 - x^2$ at x = 1 is

A)
$$l^2 + m^2 + n^2 = 2$$

C) $l^2 + m^2 + n^2 = -1$
B) $l^2 + m^2 + n^2 = 1$
D) $l^2 + m^2 + n^2 = 4$

68.	If $ \vec{a} = 1$, $ \vec{b} = 2$, $ \vec{a} \times \vec{b} = \sqrt{3}$, then angle between $\vec{a} \& \vec{b}$ is					
	A) 90°	B) 30°	C) 60°	(d) 45°		
69.	Direction cosines of line	$\frac{4-x}{2} = \frac{y+3}{3} = \frac{z+2}{6}$ is	ria zerena linea eran R Liarradise nordasarrazae a			
	A) (-2, 3, 6)	B) (2, 3, 6)	$C)\left(\frac{-2}{7},\frac{3}{7},\frac{6}{7}\right)$	D) (2, -3, 6)		
70.	The planes $2x - y + 4z =$	5 & 5x - 2.5y + 10z =	6 are	(A+za) American		
	A) PerpendicularC) Intersect <i>y</i>-axis		B) ParallelD) Pass through (0,0,0)			
71.	Distance of the plane $2x$	-3y + 4z = 6 from origin	n is			
	A) $\frac{6}{\sqrt{29}}$	B) $\frac{4}{\sqrt{29}}$	C) $\frac{1}{\sqrt{29}}$	(d) $\sqrt{29}$		
72.	For two events E & F of	a random experiment, P	(E / F) is equal to			
	A) $\frac{P(E \cap F)}{P(E)}$	B) $\frac{P(E \cap F)}{P(F)}$	C) $P(E \cap F)$	D) $P(E \cup F)$		
73.	For a random variable X					
	A) $E(x^2)$	B) $[E(x)]^2 - E(x^2)$	C) $E(x^2) - [E(x)]^2$	D) None of these		
74.	If A & B are independent events, $P(A) = \frac{3}{5}$, $P(B) = \frac{1}{5}$, then $P(A \cap B)$ is					
	A) $\frac{3}{5}$	B) $\frac{3}{25}$	C) $\frac{1}{25}$	D) $\frac{2}{25}$		
75.	If $\sin^{-1} x = y$, then					
	A) $0 \le y \le \pi$	B) $\frac{-\pi}{2} \le y \le \frac{\pi}{2}$	C) $0 < y < \pi$	D) $\frac{-\pi}{2} < y < \frac{\pi}{2}$		
7(SS OF THE SUBJECT			
76.	Which one is the main Ra		C) Rice	D) Wheat		
	A) Maize	B) Gram		D) Wheat		
77.	What is the main reason of			ona an an an		
	A) Rice cropB) Wheat cropC) Underground water liftingD) Overcultivation					
78.	Major source of irrigation water in Punjab is					
	A) Canal	B) Rain water	C) Pond	D) Tubewell		

79.	Turi is made from		sourcen's (!)		
	A) Rice	B) Sugarcane	C) Toria	D) Wheat	
80.	One Acre/Killa is con	nposed ofKanals.		A) Thereid	
	A) 10	B) 8	C) 4	D) 6	
81.	Which variety of basn	nati is grown in large areas c	of Punjab?		
	A) Pakistani	B) 1121	C) 1509	D) 386	
82.	Punjab area is suitable	e for fruit tree.		A) Manasaett	
	A) Banana	B) Papaya	C) Grapes	D) Kinnow	
83.	Which crop takes long	ger time to mature?			
	A) Rice	B) Wheat	C) Cotton	D) Sugarcane	
84.	Type of farming in Pu			CONTRACTOR (FA	
	A) Tenant	B) Contract	C) Ownership	D) None of these	
85.	Pear is fruit plant and	is predominantly grown in			
•	A) Ludhiana	B) Bathinda	C) Ferozepur	D) Amritsar	
86.	Average number of ir	rigations required for rice ar	e		
	A) 4	B) 14	C) 34	D) 24	
87.	Gullidanda/Lallu is major weed of				
	A) Rice	B) Wheat	C) Barseem	D) Maize	
88.	The red color of toma	atoes is due to	- line 4 & Kine work in it?		
	A) Lycopene	B) Carotenoids	C) Anthocyanin	D) None of the above	
89.	In glucose fermentati	on gas produced is :			
	A) Oxygen	B) Hydrogen gas	C) Carbon monoxide	D) Carbon dioxide	
90.	Rapid freezing cause	s the formation of	crystals	•	
	A) Large	B) Medium	C) Small	D) None of the above	
91.	Pasteurization causes destruction oforganisms.				
	A) All	B) Pathogenic	C) Commercial	D) Desirable	
92.	The color of papaya	is due to presence of :			
	A) Carotene	B) Anthocyanin	C) Lycopene	D) Betalin	
93.	Biotin is also known				
	A) Vitamin H	B) Vitamin K	C) Antioxidant	D) Thiamine	

94.	Blanching of food helps to inactivate					
	A) Dust	B) Enzymes	C) Microorganisms	D) All of the above		
95.	The deficiency of iodine results lead to :					
	A) Thyroid	B) Scurvy	C) Severe Fever	D) All of the above		
96.	The frequency of waves	s in a household microwave	e oven is :			
	A) 1540 Hz	B) 2450 Hz	C) 3360 Hz	D) 4450 Hz		
97.	Lactose is :					
	A) Monosaccharide	B) Polysaccharide	C) Oligosaccharide	D) Disaccharide		
98.	Table sugar is :					
	A) Lactose	B) Sucrose	C) Maltose	D) Fructose		
99.	Carrots are rich in which	n of the following vitamin :		83. Which crop tel		
	A) Vitamin C	B) Vitamin A	C) Vitamin E	D) All of the above		
100.	Price of wheat in Rupee	s/Qt. fixed by Central Gov	ernment during 2015-16 is			
	A) 1450	B) 1475	C) 1500	D) 1525		