IM.Sc-Nursing Sciences

Entrance Examination- 2011

Hall Ticke	et Number			
Time : 2 hours				Total marks: 75
	Please read the fo	ollowing instructions ca	refully before answ	ering.
		Instructions		
1. This bo	ooklet has (9) pages.	Please check thoroughl	y for all the pages.	
2. Enter th	he Hall ticket number or	the first page of this b	oooklet as well as o	n the OMR sheet.
3. There is	s negative marking. For	each wrong answer 0.3	3 marks will be dec	lucted.
	are two PARTS in the quots. 26-75). In case of a			
5. Calcula	tors are not permitted			
		PART-A		
1.	The salt formed when ni	tric acid is neutralised us	sing potassium hydro	xide is
	A) Potassium sulphate	B) Potassium chloride	C) Sodium nitrate	D) Potassium nitrate
2.	What is the symbol for the	he element Selenium?		
	A) Si	B) Se	C) Na	D) S
3,	Which of the diseases ha	ve no vaccine till date:		
	A) Small pox	B) Measles	C) Typhoid	D) Common Cold

4.	The function of tRN	NA is to				
	A) Transport of an B) Carry codons to C) Translate RNA D) Transcribe the D	the ribosomes	ein synthesis			
5.	If a material is desc	ribed as being bio	degradable, it c	an be		
	A) softened by heatC) broken down by		il and rot away		moulded into different sed by burning	shapes
6.	The four main elem	ents in the human	body are			
	A) sulphur, nitrogen B) carbon, nitrogen C) carbon, sulphur, D) carbon, sulphur,	, oxygen and hydr nitrogen and hydr	ogen ogen			
7.	The function of the	lungs is to take in				
	A) Oxygen into theB) Nitrogen into theC) Carbon dioxideD) Oxygen into the	e blood and remov into the blood and	e carbon dioxic remove oxyger	1		
8.	Down's syndrome i	s an example of a	chromosal abno	ormality c	alled:	
	A) Trisomy	B) Monosomy	C) I	Deletion	D) Inversion	
9.		oetween a tall plan	t and a short pl	ant resulte	nant over the allele for d in 50% of the offspri	
	A) Tt and tt	B) Tt and Tt	C) TT and Tt		D) TT and tt	
10.	What enzyme is req	uired for the poly	merase chain re	action (PC	CR)	
	A) Taq Polymerase C) DNA polymeras	e			B) Paq polymerase D) RNA Polymerase	
11.	What is the function	n of xylem vessels	?			
	A) Transport dissolved food from the leaves B) Form root nodules for nitrogen fixing					

	C) Store carbohydratesD) Transport water and minerals from the roots and help support the plant					
12.	Mercury is:					
	A) A liquid and metal C) A solid and non-metal		B) A liquid a D) Neither li			
13.	Which of the following in	ndicates fitness?				
	A) High resting pulse rateB) Low resting pulse rateC) Low resting pulse rateD) High resting pulse rate	and short recovery time	e.			
14.	The branch of Zoology th	at concerns the study o	f birds is known as:			
	A) Kineosology	B) Ornithology	C) Ichthyolo	gy D)) Acarology	
15.	Which of the metal shows	n has the highest densit	y?			
	A) Iron	B) Calcium	C) Silver	D) Gold	
16.	What name is given to a	catalyst affects living th	nings?			
	A) A precipitate	B) Platinum	C) A conver	ter D) An enzyme	
17.	Genetics is the study of:					
	A) Functions of nuclear :C) Science of reproduction		B) Sexual ar D) Study of		haracteristics s	
18.	Choose the correct pair					
	A) Sore throat : bacterial C) Malaria : Viral	infection	B) Amoebia D) Typhoid	•	es	
19.	The process of destroying	g foreign particles enter	ring into the body is	known a		
	A) Phagocytosis	B) Haemolysis	C) Exocytos	sis D) Catalysis	
20.	Water soluble vitamins a	re				
	A) Vit. C & Vit. B	B) Vit. B & Vit. D	C) Vit. C & Vit. E	D) Vit.D	& Vit.E	

21. Which of the follo	1. Which of the following never contains in food chain?							
A) Consumer	B) habitats	C) herbivore	D) omnivore					
22. Inflammation is u	2. Inflammation is usually accompanied with							
A) Pain	B) Nausea	C) Diarrhea	D) Chills					
23. What is the formu A) Cl ⁺	3. What is the formula for the ion which has 17 protons and 18 electrons? A) Cl + B) Ar + C) Cl - D) Ar							
24. In flurosis, which	of the following tissues	s is not affected:						
A) Bone	B) Teeth	C) Spine	D) Brain					
25. A high white bloc	d cell count could indic	cate						
A) Haemophilia	B) Diabetes	C) Anaemia	D) Leukaemia					
	PAR	<u>RТ-В</u>						
26. Which of the follo	owing is responsible for	controlling the cell?						
A) Chloroplast	B) vacuole	C) nucleus	D) cell wall					
27. The function of a	rteries is to							
B) Carry blood to C) Carry blood av	 A) Allow nutrients to pass from the blood to the tissues B) Carry blood to the heart C) Carry blood away from heart D) Link the veins to the capillaries 							
28. Which of the follo	owing plant pigment tra	ps solar energy?						
A) Chloroplast	B) cell wall	C) cytoplasm	D) chlorophyll					
29. The stain used for	microscopic examinati	ion of plant cells is						
A) Cell stain	B) Iodine solution	C) Biuret reagent	D) Benedicts solution					
30. The instrument us	sed for blood pressure n	neasurement in humans is						
A) Reaction times	B) Pulsometer	C) Sphygmomanometer	D) Peak flow meter					

31.	The following is usually a	accompanied in a chem	nical reaction		
	A) A color change occurs C) Heat energy is absorbed		B) A gas is given off D) A new substance is formed		
32.	More than 60% of body v	veight in humans is ma	de up of		
	A) fibre	B) fat	C) water	D) protein	
33.	Iron is used in the body to	•			
	A) make blood C) make teeth and bones	B) make muscle D) protect the body a	against scurvy		
34.	Which of the following is	the richest source of e	energy in our diet?		
	A) Proteins B) Fa	ats and oils C) Ca	arbohydrates	D) Fibre	
35.	Which of the following m	netals is the most reacti	ive?		
	A) Zinc	B) Copper	C) Magnesium	D)Iron	
36.	Which of the follwing sta	in do we use for staini	ng animal cells?		
	A) iodine solution	B) cell stain	C) methylene	blue D) ribena	
37.	Tissue is defined as	to perform a	function		
	A) a group of cells	B) a group of organs	C) organism	D) a cell system	
38.	Which one of the following	ng is not a symptom of	f diabetes:		
	A) Excess urination	B) Excessive thirst	C) Loss of weight	D) Night blindness	
39.	Another name of Copper	sulphate is:			
	A) Green Vitriol	B) Red vitroil	C) Blue vitriol	D) Black vitriol	
40.	Which one of them is a co	orrect pair:			
	A) Glucose : ADP C) Adenosine diphosphat		ocess does not require		

41.	Kidneys maintain blood p	pressure by regi	ulating:			
	A) Salt and Fluid levels in C) Toxins levels in the bo	-			B) Nutrients levels D) Lipids and Prote	
42.	Choose the incorrect pair	:				
	A) Insulin: Pancreas C) Prolactin: Pituitary				B) Epinephrine: Ac D) Oxytocin: Thyr	
43.	Orange is a good source of	of:				
	A) Vit. C	B) Minerals		C) Iro	n	D) Protein
44.	Which one of the following	ng is a monosa	ccharide:			
	A) Sucrose	B) Lactose		C) Gala	actose	D) Maltose
45.	Excess Glucose is stored	in animal tissue	es as			
	A) Cellulose	B) Starch	C) Prot	ein	D) Glycogen	
46.	A fat is called 'saturated'	as				
	A) The Fatty acid carbon chains are saturated with HydrogenB) The fat is saturated with waterC) The fatty acid chains can have more water addedD) They saturate the body with fat when eaten					
47.	Zymogens are inactive A) enzymes	B) hormones	(C) nucl	leotides	D) glycosides
48.	Malaria is caused by: A) Plasmodium vivax C) Entamoeba Histolytica	a			B) Caenorhabditis D) Clostridium teta	_
49.	Haemoglobin content is t	ested for a pers	on suffer	ing from	m	
	A) Schizophrenia	B) Parkinson's	s disease		C) Jaundice	D) Anaemia
50.	Trypsin is an enzyme that	t catalyses the b	oreakdow	n of:		
	A) Proteins	B) Carbohydra	ates	(C) Fats	D) Nucleotid

51.	If a double stranded DN	A has 20% Aden	ine, what would be th	e percent of	f cytosine?	
	A) 20	B) 30	C) 40	D)	80	
52.	Which one of the following	ng is not a sexua	lly transmitted disease	e		
	A) Gonorrhea	B) Syphilis	C) Hepatitis-B	D)	Psoriasis	
53.	The protein coat of a viru	is is called:				
	A) Cosmid	B) Plasmid	C) Capsid	D)	Plastid	
54.	4. Turgor pressure become equal to the wall pressure when					
	A) Water leaves the cell B) Water enters the cell C) No exchange of water takes place D) Solute goes from cell into water					
55.	Cultivation of trees, in d	warf form is kno	wn as:			
	A) Bonsai	B) Ikebana	C) Dwarfism	D)	Itiolation	
56.	Hepatic portal system co	ollects blood from	1			
	A) Liver	B) Lungs	C) Kidney	D)	Alimentary canal	
57.	Which of the following b	elongs to phylun	n Arthropoda?			
	A) Cockroach	B) Goldfish	C) Silverfish	D)	Cuttlefish	
58.	Which of the following i	s used by plants t	to make proteins?			
	A) Phosphates B) 1	Nitrates	C) Potassium salts	D) Mag	gnesium salts	
59.	What are the tubular stru	ctures present in	Xylem			
	A) Tracheids and vessels	B) Xylem pa	arenchyma C) Si	eve tubes	D) Xylem fiber	
60.	The living part of the cel	l is called				
	A) Cell Wall	B) Protoplasm	C) Hyal	aplasam	D) Cell sap	
61.	Free floating organism in	n open sea and sh	ore are collectively ca	alled:		
	A) Necton	B) Plankton	C) Zoor	lankton	D) Benthos	

62.	Mitosis refers to				
	A) Division of nu C) Reducing chro	cleus mosome number by half	B) Division of cytoplasmD) Division of cytoplasm and nucleus b		
63.	Culturing of plant	s in water medium is			
	A) Hydrophonics	B) Sand culture	C) Aerophonics	D) Soil-less culture	
64.	Sea gulls excrete	excess of NaCl from:			
	A) Liver	B) Lungs	C) Nasal cavity	D) Kidney	
65. Tube feet is the locomotory organ in:					
	A) Starfish	B) Jelly fish	C) Silver fish	D) Scoliodon	
66. Exoskeleton is absent in:					
	A) Scoliodon	B) Frog	C) Rabbit	D) Fowl	
67.	A reaction that co	mbines small molecules	to form large molecu	les is known as	
	A) Anabolic react	tion B) Catabolic rea	action C) Anaboli	sm D) Hydrolase reaction	
68.	Which of the follo	owing helps in clotting o	of blood?		
	A) Vitamin B1	B) Vitamin B2	C) Vitamin D D) Vita	ımin K	
69.	. Total volume of b	blood in a normal adult h	uman being is		
	A) 5-6 liters	B) 3-4 liters	C) 8-10 liters	D) 10-12 liters	
70.	. Vitamin B12 defi	ciency can lead to			
	A) Night blindnes	ss B) Pernicious a	nemia C) Beri-Beri	D) Loss of appetite	
71.	. Carbohydrates are	e composed of			
	A) amino acids	B) nucleic acids	C) monosaccharides	D) glycerol and fatty acids	
72	. Pollen grains are	rich in:			
	A) Nutrients	B) Water	C) Salt	D) fat	

13.	73. Tobacco mosaic disease was the first eukaryotic disease recognized to be caused by:						
	A) Bacteria B) a vir	us C) ger	netic abnormalities	D) radia	tion		
74.	Histology is the study of:						
	A) cells and membranes	B) skin	C) organs and organ sy	stems	D) tissues		
75.	75. During exercise, there is an increased flow of blood to						
	A) Brain	B) Kidneys	C) skin		D) lungs		