C.S.E – MEDICAL SCIENCE – 2005 (PRELIMINARY)

Time Allowed: 2 hours

Maximum Marks

1. Consider the following statements:

The human heart has

- 1. the opening of coronary sinus in the right atrium.
- 2. its SA Node located just above the opening of coronary sinus.
- 3. its AV Node located in the atrio-ventricular septum. Which of the statements given above are correct?
- (a) 1 and 2 (b) 2 and 3
- (c) 1 and 3 (d) 1, 2 and 3

2. The paralysis of which one of the following causes lurching gait?

- (a) Adductor muscles
- (b) Gluteus maximus
- (c) Ilio-psoas
- (d) Gluteus medius et minim us
- 3. With reference to left kidney, which one of the following statements not correct?
 - (a) It is surrounded by the renal fascia which also encloses the left supra-renal gland
 - (b) It has five vascular segments
 - (c) It is related anteriorly to the fourth part of the duodenum
 - (d) It drains into the lateral aortic lymph nodes
- 4. Which of the following stur tures does not pass through lieno-renal ligament?
 - (a) Splenic artery
 - (c) Short gastric arteries
- (b) Splenic vein

1. Coeliac artery

2. Splenic artery

(d) Tail of pancreas

5. Match List-I (Arteries supplying stomach) with ListII (Arteries of origin) and select the c rrect answer using the code given below the Lists:

List-II

- List-I
- A. Left Gastric
- B. Right Ga tric
- C. Left G stroepiploic

R

- . R ght Gastroepiploic
- Gastro-duodenal artery
 Common Hepatic artery
 - A
 B
 C
 D

 (b)
 1
 4
 2
 3

 (d)
 3
 4
 2
 1

. The root of the right lung does not lie behind which one of the following?

(a) Right atrium

Ā

1

3

(a)

(c)

- (b) Right Vagus
- (c) Superior vena cava

C

4

4

D

3

1

- (d) Phrenic nerve
- 7. Which one of the following is the most important support of the uterus?
 - (a) Broad ligament

(b) Round ligament of the uterus (c) Levator ani muscle (d) Pubocervical ligament. 8. The germ cells are derived from (a) yolk sac endoderm (b) amnion (c) germinal epithelium of gonad (d) allantois 9. **Regarding the adrenal gland, which following statement is correct?** (a) It contains pre-ganglionic neurons (b) Its medulla synthesizes corticoids (c) It is drained by three veins (d) It contains chromaffin cells 10. Match List-I (Arteries supplying brain) with List-II (Syndrome Symptoms when affected) and select the correct answer using the code given below: List-II List-I 1. Isolated facial nerve palsy A. Anterior spinal artery 2. Lateral medullary syndrome B. Posterior cerebral artery C. Recruitment branch of the 3. Medical medullary syndrome anterior cerebral artery Third and Fourth cranial nerve palsy D. Anterior inferior cerebeller Sixth, Seventh and Eighth cranial 5. artery palsy ner Α В С D С D (a) 1 4 3 5 1 5 (b)5 1 4 (d) 5 2 4 (c) 3 11. The ipsilateral fibres of the optic nerve relay in which of the following layers of lateral geniculate body? (a) 2, 3, 5 (b) 1, 4, 6 (d) 2, 3, 6 (c) 1, 4, 5 12. Through which part of internal capsule does auditory pathway pass? (a) Anterior limb (b) Posterior limb (c) Retro-lentiform part (d) Sub-lentiform part The secretomotor fibres to the parotid gland reach via 13. (a) facial erve (b) glossopharyngeal nerve (c) mandibular nerve (d) vagus nerve 4. Consider the following developmental zones seen in intracartilaginous bone formation in long and short bones: 1. Zone of maturation and hypertrophy 2. Zone of proliferation and multiplication 3. Zone of cartilage calcification 4. Zone of cartilage removal and bone deposition

What is the correct sequence of the above zones from the distal ends?

- (a) 1 2 3 4 (b) 2 I 3 4
- (c) 2 1 4 3 (d) 1 4 3 2

15. Which one of the following sensory receptors is found in epidermis?

(a) Merkel disc

- (b) Meissner's corpuscles
- (c) Ruffini ending (d) Pacinian corpuscles
- 16. Which one of the following cells of germinal epithelium of testis devides by meiosis?
 - (a) Type A spermatogonium
 - (b) Primary spermatocyte
 - (c) Spermatid
 - (d) Secondary spermatocyte

17. The body of the vertebra develops from

(a) notochord

(b) primitive streak

- (c) one sclerotome
- (d) cephalic and caudal halves of adjacent sclerotomes

18. Which of the following does not contribute to the development of laryngeal cartilages?

- (a) Tuberculum impar
- (b) Mesenchyme derived from neural crest
- (c) Cartilages of fourth to sixth pairs of pharyngeal arches
- (d) Hypobranchial eminence

19. The diaphragm is formed from the following except

- (a) septum transversum
- (b) paraxial mesoderm
- (c) pleuroperitoneal membranes
- (d) dorsal mesentery of esphagus

20. Support of the murcles against gravity is a function of which one of the following?

- (a) Reticular nuclei
- (c) Supplementary motor area

21. The type of synaptic inhibition seen in cerebellum is

- (a) pre-synaptic (b) post-synaptic
- (c) fe d forward (d) Renshaw cell

The characteristic brown-red colour of faeces is due to the presence of

- (a) biliverdin (b) urobilinogen
- (c) stercobilin

(d) bilirubin

(b) Hypothalamus

(d) Amygdala

- 23. Consider the following:
 - 1. Electrocardiogram

3. Jugular venous pulse tracing

2. Phonocardiogram

4. Carotid pulse tracing

Which of the above must be recorded simultaneously in order to calculate the duration of total electromechanical systole?

- (a) I and 2 (b) 1 and 3
- (c) 2 and 3 (d) 1, 2 and 4

24. Cerebral vasodilation is not brought about by

- (a) an increase in Pco₂
- (b) a decrease in PO_2 below 30 mm Hg
- (c) an increase in lactic acid
- (d) a decrease in PO_2 in the range of 30-60 mm Hg
- 25. The stimulation of which of the following causes hyperventilation at high altitude?
 - (a) Peripheral chemoreceptors
 - (b) Vagal afferents
 - (c) Central chemoreceptors
 - (d) Proprioceptors

26. Section of the vagus nerve results in

- (a) increased rate of respiration
- (b) decreased depth of respiration
- (c) irregular breathing patterns
- (d) increase in breath-holding time
- 27. Regarding prothrombin time, which one of the following statements is not correct?
 - (a) It gives an indication of the total quality of prothrombin in the blood sample
 - (b) It requires the presence of thromboplastin and calcium ions
 - (c) The reaction involves the tissue thromboplastin activation of prothrombin to thrombin
 - (d) It is a measure of rate of reaction from prothrombin to fibrin formation
- 28. Which one of the following substances, actively transported by the tubular cells, has the highest Tubular Transport Maximum?
 - (a) Plasma protein (b) Haemoglobin
 - (c) Glucose (d) Sodium
- 29. Blood samples for glucose estimation are collected in fluoride tubes as fluoride prevents glycolysis by inhibiting.
 - (a) glucokinase

(c) aldolase

- (b) phosphofructokinase
- (d) enolase

30. A molecule used to detect the presence of specific fragment 01 DNA or RNA is known as

- (a) Primosome (b) Probe
- (c) Pseudogene (d) Signal
- Consider the following statements:
- 1. Plasmids are circular double-stranded DNA seen inside bacteria.
- 2. Plasmids confer antibiotic resistance to host bacteria.
- 3. Plasmids are used as vectors in recombinant DNA technology.

Which of the statements given above are correct?

- (a) 1 and 2 (b) 2 and 3
- (c) 1 and 3 (d) 1, 2 and 3
- **32.** The process of programmed genedirected cell death characterised by cellshrinkage, nuclear condensation and fragmentation is known as
 - (a) Necrosis (b) Chromatolysis
 - (d) Apoptosis
- **33.** During protein biosynthesis, high energy bonds are not utilized in which one of the following steps?
 - (a) Formation of aminoacyl tRNA
 - (b) Binding of aminoacyl tRNA to A site of ribosome
 - (c) Formation of peptide bond (peptidyl transferase step)
 - (d) Translocation step

(c) Pyknosis

- 34. Which of the following is not a characteristic of Hemoglobin S
 - (a) Red cells are sickle shaped
 - (b) Insoluble in low O_2 tension
 - (c) Abnormal heme portion
 - (d) Normal alpha chain but abnormal beta chain

35. The plasma pH is increased in which of the following stuations?

- (a) During renal shutdown
- (b) During exercise

(c) Bile salts

- (c) When a high protein diet is taken
- (d) During breath holding

36. The Wobble hypothesis refers to the less stringent base-pairing specificity of the

- (a) 5' end base of the codon(c) 3' end base of the ant codon
- (b) 5' end base of the anticodon(d) middle base of the anticodon
- 37. Which of the following factors in bile juice is responsible for preventing the precipitation of choleste ol and formation of gall stones?
 - (a) High alkalin condition
- (b) High concentration of bicarbonates
- (d) Bile pigments
- 38. Which one of the following events does not contribute to the movement of fluid from ascular compartment to extra-vascular compartment during acu e inflammation?
 - (a) Increased capillary permeability,
 - (b) Increased osmotic pressure of plasma protein
 - (c) Increased hydrostatic pressure of the blood
 - (d) Increased osmotic pressure of the interstitial fluid

39. Match List-I (Immunological markers in serum of hepatitis-B infection) with List-II (Significance of the markers) and select the correct answer using the code given below the Lists:

	List - I	List - II				
	A. Persistence of HBe Ag beyond 10 weeks	 Infection in the remote past Acute recent infection 				
	B. Seroconversion from HBe Ag to					
	anti-HBe during acute stage	 4. Resolution of disease 				
	C. High titre of Ig M anti-HBc persists	for four to six months				
	D. Elevated level of IgG anti-HBc in acute stage					
	A B C D	A B C D				
	(a) 3 4 2 1	(b) 3 2 4				
	(c) 1 2 4 3	(d) 1 4 2 3				
40.	Match' List-I (Spread of infection) w	vith (Infective disease) and select - the				
	correct answer using the code given be					
	List-I List-II					
	A. Inhalation	. Hepatit s-E virus infection				
	B. Ingestion	. Herpes simplex virus infection				
	C. Body contact	3. Hepatit C virus infection				
	D. Blood borne	4. Mumps				
	A B C D	A B C D				
	(a) 3 2 1 4	(b) 3 1 2 4				
	(c) 4 2 1 3	(d) 4 1 2 3				
41.	Cleavage of IgG molecule by papain g	ives rise to				
	(a) one Fe fragment and two F_{ab} fragment	nts				
	(b) one F_c fragment and four F_{ab} fragment	nts				
	(c) two F_c fragments and four F_{ab} fragments	ents				
	(d) two F_c fragments and two F_{ab} fragments	ents				
42.		nation of pyramidine dimers in DNA				
	commo ly occurs following exposure t					
1		b) infra-red radiation				
1		(d) chemical carcinogens				
43.	The mononuclear macrophage system	of bone is				
		b) osteoblast				
	(c) osteocyte ((d) osteophyte				

44. Match List-I (Cytokines) with List-II (Effects) and select the correct answer using the code given below the Lists:

	using the code given below the Lists:														
	List-I					List-II									
	А.	IL-l	and 6			1. Stimulate – haematopoisis									
	B.	TNF	- alpha			2. Activate inflammatory cells									
	C. IL-2 and 4						Regu	late ly	mpho	cytic g	growth	and d	ifferen	ntiation	
	D.	G-C	SF			4.	Media	ate na	tural i	mmun	ity				
		А	В	С	D					А	В	С	D		
	(a)	1	2	3	4				(b)	1	3	2	4		
	(c)	4	3	2	1				(d)	4	2	3	1	-20	
45.	Which one of the following immunoglobulins constitutes the antigen-binding														
	component of B-cell receptor?														
	(a)	IgA						(b)	IgD						£
	(c)	IgM						(d)	IgG						
46.	Co	nside	r the f	ollow	ing fiı	ndin	gs:				- 45	14		2	
	1.	Gran	uloma	with	centra	l cas	eation		10	1		1			
	2.	Lang	ghans a	nd for	reign b	oody	giant	cells	1				1		
	3.	Zone	e of ly	mpho	cytic	infil	tratior	n arou	ind th	e mas	ss of e	pithel	oid ce	ells and	
	3. Zone of lymphocytic infiltration around the mass of epitheloid cells and giant cells														
	4. Lack of reticulum between the cells on sp cia tain														
							gs dif	feren	iate t	uberc	ulous	lympł	n nod	e from	
			sis of l	ymph	node	?					1				
		1, 2				2	44	(b)			12				
	` ´	2 and						(d)	1 and						
47.													of act	tivation	
			ompon		100	com	pieme								
	` ´		C4-C2-0					. ,			5-C4-C	3			
40			C5-C4-0								C4-C5				
48.			of the f						n have	27					
		1.0	'B' sub	10.00	4 11										
10.0			'B sub												
1			e B' u												
5 10			B' sub					units							
49.			r the f		-										
			nction				by								
	1.		plemen		tion te	ests.									
	2.		dermal												
		8 L	agglut												
			ohocyte	-											
			f the st	ateme	ents gi	ven	above								
		1, 2							2 and						
	(c)	2, 3	and 4					(d)	I and	4					

50. Malarial relapse is seen in

- (a) P. falciparum and P. vivax
- (b) P. falciparum and P. malariae
- (c) P. ovale and P. malariae
- (d) P. vivax and P. ovale

51. Match List-I (Autoimmune disease) with List-II (Self antigen) and select the correct answer using the code given below the Lists:

List-I

- A. Pernicious anaemia
- B. Multiple sclerosis
- C. Rheumatoid arthritis
- D. Goodpasture's syndrome.
- List-II
- 1. Thyroglobulin
- 2. Gamma globulin

А

3

Vitamin C Vitamin K

(b) Tinidazole

(d) Sea snake

(b)

(d)

- 3. Gastric parietal cells
- 4. Basement membrane
- 5. Central nervous system myelin B
- C D Α В 5 2 3 (a) 4
- 5 (c) 4 1 3
- 52. Collagen deficiency due to decreased hydroxylation of p oline and lysine occurs due to the deficiency of which one of the following?

 (\mathbf{h})

(c)

- (a) Vitamin A
- (b) Vitamin D
- 53. The drug of choice to eliminate amoebic luminal cysts is
 - (a) Metronidazole
 - (d) Chloroquine (c) Diloxanide furoate
- 54. The venom of which one of the following snakes is known to be neurotoxic?
 - (b) Pit viper (a) Russell's viper.
 - (c) Krait
- 55. Which one of the following statements is not correct?
 - (a) Cerebral blood flow is approximately 75 ml per 100 gm per minute in the gray matter
 - (b) Cerebral oxyge consumption is 3.5 ml per 100 gm per minute
 - (c) Cerebral glucose consumption is 5 mg per 100 gm per minute
 - (d) The EEC becomes invariably abnormal when cerebral blood flow diminishes o 35 ml per 100 gm per minute

56. Match List-I (Pathogen) with List-II (Medium for cultivation) and select the correct answer using the code given below the Lists:

List-I

List-II

- A. Salmonella typhimurium
- B. Vibrio cholerae
- C. Neisseria meningitidis
- D. Mycobacterium tuberculosis
- 1. Lowenstein Jensen medium
- 2. Chocolate agar
- 3. Mannitol salt agar
- 4. TCBS agar
- 5. Wilson and Blair's medium

	А	В	С	D			А	В	С	D
(a)	5	4	2	3		(b)	2	5	4	1
(c)	5	4	2	1		(d)	2	5	4	3

57. A comatosed patient due to a large intracerebral bleed is likely to benefit from the following except

- (a) mannitol intravenously
- (b) intravenous magnesium sulphate
- (c) dexamethasone intravenously
- (d) hyperventilation
- 58. Which one of the following findings is not associated with an acute attack of bronchial asthma?
 - (a) Forced expiratory volume in one, second decreases
 - (b) Maximal expiratory flow rate decreases
 - (c) Peak expiratory flow rate decreases
 - (d) Pulsus paradoxus appears when FEV_1 is less than 35% of the prediced value
- 59. Which one of the following statements about management of Status Epilepticus is not correct?
 - (a) Maintain airway and start Benzodiazepines group drug
 - (b) Start bolus dose Dilantin Sodium
 - (c) If the patient is on antiepileptic drugs, measure the serum level of drugs
 - (d) Barbiturate must be avoided as it cause respiratory depression
- 60. Which one of the following is not included in the treatment of hyperkalemia in acute renal failure?
 - (a) IV calcium gluconate
 - (b) Dextrose with insulin infusio
 - (c) Blood transfusion
 - (d) IV sodium bicarbona e
- 61. In the jugular venous pulse a' waves larger than 'v' waves are seen in
 - (a) tricuspid sterosis (b) tricuspid incompetence
 - (c) patent ductus arteriosus (d) aortic stenosis
- 62. According to the Welcome classification, a child is said to have kwashiorkor when his
 - (a) weigh is 60-80% of normal without edema
 - b) weight is 60-80% of normal with edema
 - (c) weight is less than 60% of normal without edema
 - (d) weight is less than 60% of normal with edema

63. Match List-I (Conditions) with List-II (Drugs used) and select the correct answer using the code given below the Lists:

List-I

- A. Chronic stable angina
- B. Unstable angina
- C. Non ST elevation myocardial infarction
- D. ST elevation myocardial infarction
- А В С D (a) 1 2 3
- 2 3 (c) 4 1

- List-II
- 1. Clopidogrel
- 2. gPlIb / IIIa receptor inhibitor

С

2

2

D

4

1

3. Heparin

А

1

4. Streptokinase

В

3

3

- - 4
- (d) 4

(b)

- 64. With reference to 'aspiration pneumonia' which one of the follow statements is not correct?
 - (a) It may occur with inhaled chemical fumes and vapors
 - (b) Aspiration pneumonitis may damage alveolar permeability for Ibumin
 - (c) It may respond dramatically to corticosteroids
 - (d) It may occur in progressive systemic sclerosis
- 65. Long-term secondary prevention following myocardial infarction is recommended with which one of the following drugs?
 - (a) Antiplatelet drugs
 - (c) Cardorone

(d) Cal ium channel antagonist

(b) Nitrates

- 66. Which one of the following is not correct with regard to amoebic liver abscess?
 - (a) Its usual occurrence is in ther ght I be
 - (b) Patient is toxic

B. Austin Flint murmur

C. Differential cyanosis

D. Carey Coombs murmur

С

3

3

D

2

1

- (c) Surgical drainage is alway indicated
- (d) Extension of absce's from liver to pericardium is the most dreaded complication

67. Match List-I (Clinical signs) with List-II (Clinical conditions) and select the correct answer u ing the code given below the Lists:

List-I A. Roth spo

А

1

2 (c)

(a)

List-II

- 1. Acute rheumatic fever
- 2. Subacute bacterial endocarditis
 - 3. Aortic incompetence
 - 4. Patent Ductus with reversal of shunt

	А	В	С	D
(b)	2	3	4	1
(d)	1	3	4	2

68. With reference to the cirrhosis of liver, which one of the following statements is not correct?

(a) Portal hypertension is considered to be present when wedge hepatic vein pressure is 5 mm Hg higher than inferior vena cava pressure

- (b) Parotid gland enlargement may be a feature in patients
- (c) Hyperbilirubinaemia is a common finding in alcoholic cirrhosis
- (d) Liver Js usually enlarged and macro nodular

69. Which of the following is not a characteristic of Zollinger-Ellison syndrome?

- (a) Severe peptic ulceration
- (b) Hyperchlorhydria
- (c) Diarrhoea and steatorrhea
- (d) Hypergastrinemia in response to intravenous secretin is not seen in this syndrome
- 70. Regarding membranous glomerulonephritis, which of the following is not correct?
 - (a) Thickening of the basement membranes is usually present
 - (b) A marked increase in cellular infiltrate within the glomerulus s usuall present
 - (c) This entity is most common in adults
 - (d) Significant proteinuria is usually present

71. Which of the following is a characteristic of poliomyel tis?

- (a) Initial febrile illness followed by development of a ymmetrical paralysis
- (b) Symmetrical muscle weakness with frequent paraesthesia but normal reflexes
- (c) Ascending motor paralysis with preservation of reflexes and sensation
- (d) Pain in the affected limb with sensorimotor deficit

72. Which one of the following is not a, characteristic of schizophrenia?

- (a) Delusion of grandeur
- (b) Auditory hallucination
- (c) Anxiety
- (d) Delusion of passivity

(c) Erythromycin e tol te

73. Which one of the following drugs can cause cholestatic hepatitis?

(a) Isoniazid

- (b) Ketoconazole
- (d) Carbon tetrachloride

List-II

- 74. Match List-I (Blo d substitutes) with List-II (Indications) and select the correct answer using the code given below the Lists:
 - List-I
 - A. Cryop ecipitate
 - Fresh whole blood.
 - Albumin

3

D. Fresh frozen plasma

В

2

1

С

Ι

2

D

4

4

- 3. Replacement of clotting factors
- 4. Fibrinogen deficiency

1. Volume expansion

2. Acute haemorrhage

	А	В	С	D
(b)	4	2	1	3
(d)	4	1	2	3

75. Avascular necrosis can occur in fractures of the following bones except

- (a) talus (b) lunate
- (c) scaphoid (d) triquetrum
- 76. Which one of the following statements regarding glutaraldehyde is not correct?
 - (a) It is used to disinfect endoscopes
 - (b) The concentration of its solution used for disinfection is 4%
 - (c) It is effective at pH 7.5 to 8.5
 - (d) It kills both gram-positive and gram-negative organisms; and viruses including hepatitis Band HIV

77. The complications of total parenteral nutrition include the following *expect*

- (a) hypermagnesemia (b) hypokalemia
- (c) hyperosmolar dehydration (d) hypophosphatemia
- 78. Match List-I (Type of fracture) with List-II (Occurrence) and sel ct the correct answer using the code given below the Lists:

List-I

List-II

- A Compression fracture
- B. Green-stick fracture
- C. Avulsion fracture
- D. March fracture
- С Α B
- 1

- Common in small bone with strong muscles I.
- Common in elderly and osteoporotic bones 2.
- 3. Common children and one cortex is intact
- Common ir athletes 4.
- D С D 3 (a) 2 4 1 4 3 (c) 4 1 2 (d) 3 T 2

79. Regarding the management of fracture shaft of femur, which" one of the following statements is not co rect?

- (a) Infants are best treat d by traction applied by Gallow's splint
- (b) Children are treated by skin traction in a Thomas splint.
- (c) In adults it is treated by internal fixation with intramedullary Kuntscher nail
- (d) Elderly patien's are managed by internal fixation with sliding compression

80. Eradication of H. pylori has been proved to be beneficial in the following conditions except

- (a) duodenal ulcer
- (b) gastric ulcer
- (c) low grade MALT lymphoma
- (d) hypertrophic gastritis
- The following methods are used to lower the intracranial pressure in patients with head injury *except*
- (a) hyperventilation
- (b) administration of Mannitol
- (c) hypothermia

81

(d) administration of Nifedipine

82. Clinical manifestations of bronchogenic carcinoma include the following *except*

- (a) hoarseness of voice due to involvement of left recurrent laryngeal nerve
- (b) Horner's syndrome
- (c) diaphragmati palsy due to infiltration of phrenic nerve
- (d) gastroparesis due to vagal involvement

83. Which one of the following is a muscle-splitting incision?

- (a) Kocher's (b) Rutherford-Morris
- (c) Pfannenstiel (d) Lanz
- 84. Regarding prostatic venous plexus, which one of the following statements i correct?
 - (a) It lies between the false capsule and true anatomical capsule
 - (b) It lies between prostatic urethra and false capsule
 - (c) It lies between the anatomical capsule and the prostatic sheath of endopelvic fascia,
 - (d) It lies outside the prostatic sheath of endopelvic fascia

85. A 4 x 4 cm NOMO inflammatory carcinoma of breast is best managed by

- (a) radical mastectomy followed by radiotherapy
- (b) neoadjuvant chemotheraphy followed by surgery
- (c) radiotherapy followed by simple mastectomy
- (d) simple mastectomy followed by adjuvant chemotheraphy

86. During urethral catheterisation in male patients, resistance is encountered at the following sites except

- (a) base of navicular fossa
- (b) mid-penile urethra
- (c) urogenital diaphragm
- (d) bulbomembranous junctio
- 87. Which one of ' the following surgical procedures used in the treatment of sigmoid volvulus has a maximum incidence of recurrence?
 - (a) Exteriorisatio
 - (b) Sigmoidopexy
 - (c) Extr perionisation
 - (d) Resection of sigmoid colon
- 88. Regarding the flow of Cerebrospinal Fluid, which one of the following sequences is correct?
 - (a) Lateral ventricle third ventricle aqueduct of Sylvius fourth ventricle
 - (b) Fourth ventricle third ventricle aqueduct of Sylvius lateral ventricle
 - (c) Lateral ventricle aqueduct of Sylvius third ventricle fourth ventricle
 - (d) Lateral ventricle third ventricle fourth ventricle aqueduct of Sylvius

89.	Which one of the following reag treatment of bleeding varices?	ents	is riot used as sclerosant in the
	(a) Ethyl alcohol	(b)	Ethanolamine oleate
	(c) Phenol	(d)	Sodium morrhuate
90.	Portal hypertension secondary to sp	lenic	vein thrombosis is best treated by
	(a) portacaval shunt		
	(b) splenorenal shunt		
	(c) oesophageal stapled transection		
	(d) splenectomy and devascularisation	l	
91.	To which one of the following types	of di	sorders does haemophilia belong?
	(a) Autosomal dominant	(b)	Autosomal recessive
	(c) Recessive sex-linked	(d)	Dominant sex-linked
92.	Positive Mantoux test indicates that	the p	person
	(a) is suffering from tuberculosis		
	(b) is infected with M: tuberculosis		
	(c) has extra-pulmonary tuberculosis		Section 1
	(d) is suffering from atypical mycobac	eteria	
93.	Duration of MDT (Multi drug Thera	apy)	to resolve paucibacillary leprosy is
	(a) 6 months	(b)	8 months
	(c) 9 months	(d)	1 mon hs
94.	In a case control study, of association	n bet	ween
	(a) relative risk	(b)	absolute risk
	(c) odds ratio	(d)	proportionate ratio
95.	Consider the following:		
	1. Temporal Association		
	2. Strength of Association	M.	
	3. Specificity of Association		
	4. Sensitivity of Association		
			iteria for the measure of the strength
1.1	risk factor and outcome is judging cau	-	-
	(a) I, 2 nd 3	• •	2, 3 and 4
	(c) 1, 3 and 4	• •	I, 2 and 4
96.	The relationship of mean height of t	-	
	(a) Student's t-test	` ´	linear regression
	(c) chi-square test		test of proportions
9	prevalence of Brugia Malayan Filar	iasist	
	(a) BHC spraying at the rate of 2 g per		
	(b) Application of one kg of Paris gree water surface	en as	2% dust with soap stone per acre of
	(c) Removal of Pistia and other wa courses	ter h	yacinth group of plants from water

- (d) Daily use of mosquito repellent nets by all residents
- 98. Which one of the following committees first recommended a Comprehensive Health Care delivery system for India?
 - (a) Bhore Committee
 - (b) Kartar Singh Committee
 - (c) Mudaliar Committee
 - (d) Srivastava Committee

99. Match List-I (Disease) with List-II (Mode of transmission) and select the correct answer using the code given below the Lists:

- List-I
- A. Ascariasis
- B. Ankylostomiasis
- C. Dracunculiasis
- D. Lymphatic filariasis
 - С А В D
- 2 3 4 (a) I
- (c) 4 2 3

List-II

- 1. Faeco-oral route
- 2. Per-cutaneous route

Α

- 3. Oral route
- 4. Vector route
- Ι
- (b)

(d)

- 100. Which one of the following organisms is the best indica or of faecal pollution of water?
 - (a) Streptococcus faecalis
- (b) Clostridium perfringens
- (d) Escherichia coli (c) Salmonella enteritidis

101. Disability-Adjusted Life Year (DALY) expresses the

- (a) extent of disability in the populat on
- (b) expectation of life free of disability
- (c) years of life, lost to premature death
- (d) lost years of life due to prema re death and disability

102. The prevalence rate to e achieved to reach leprosy elimination level is

- (a) 10 cases per 10,000 population
- (b) 5 cases per 10,000 population
- (c) less than I case p r 10,000 population
- (d) less that 1 case per 1,000 population

103. Match List I (Disease/Microorganism) with List-II (Status) and select the correct answer using the. code given below the Lists:

- L st-I
- Yellow fever
- B. Measles
- C. Hepatitis-A
- D. Mycobacterium avium

	А	В	С	D
(a)	2	4	3	1
(c)	2	4	1	5

- List-II
- 1. Endemic
- 2. Exotic
- 3. Epornitic
- 4. Epidemic
- 5. Opportunistic

	А	В	С	D
(b)	4	2	3	Ι
(d)	4	2	Ι	5

104. The number of abortions performed divided by the number of live births in the same period is known as

(a) abortion rate

- (b) abortion incidence
- (c) abortion prevalence
- (d) abortion ratio

105. Consider the following:

- 1. NET-EN (Nbrethisterone Enantate)
- 2. DMPA (Depot Medroxy Progesterone Acetate)
- 3. Mesigyna
- 4. Norplant

Which of the above are the injectable contraceptives?

- (a) 1 and 2 (b) 1, 2 and 3
- (c) 3 and 4 (d) 1, 2, 3 and 4

106. Which of the following measurements indicates whether leprosy cases a being detected early or not?

- (a) New case detection rate
- (b) Proportion of children among new cases.
- (c) Proportion of new cases with disability
- (d) Prevalence rate of disease

107. Diuresis produced by alcohol is due to

- (a) decreased tubular reabsorption
- (b) increased glomerular filtration rate
- (c) osmotic diuresis
- (d) inhibition of ADH secretion

108. Consider the following stateme ts:

- 1. There are 2,743 Communit, Health Centres in India.
- 2. One Community Health Centre covers 80,000 to 1,20,000 population and usually has 30 indoor beds. Which of the statements given above is/are correct?
- (a) 1 only

(c) Both 1 and 2

- (b) 2 only
- (d) Neither 1 nor 2

109. The period of infectivity in viral hepatitis-A is maximum

- (a) up to 12 weeks after the onset of jaundice
- (b) during first 4 weeks after the onset of jaundice
- (c) during one week after the onset of jaundice
- during two weeks before to one week after the onset of jaundice

10. In the rod photo receptors, the pigment rhodopsin is present in.

- (a) plasma membrane
- (c) cytoplasm
- (b) disk membrane
- (d) endoplasmic reticulum

111. Consider the following statements:

- 1. At present more than 550 District Blindness Control Societies are set up in India.
- 2. At present only five States have reached the level of leprosy elimination in India.

Which of the following statements given above is/are correct?

- (a) 1 only (b) 2 only
- (c) Both 1 and 2 (d) Neither 1 nor 2

112. A relative paralysis of voluntary activity during REM sleep is dependent on

- (a) thalamus (b) cerebellum
- (c) pons (d) locus ceruleus

Directions: The following eight (8) items consist of two statements, one lab lied as 'Assertion (a) ' and the other as 'Reason (R)'. You are to examine these two statements carefully and select the answers to these items using the code given below;

- (a) Both A and R are individually true, and R is the correct explanation of A
- (b) Both A and R are individually true but R is not the correct explanation of A
- (c) A is true but R is false (d) A is false but R is true

113. Assertion (A) : Jlering-Breuer reflex has no role in the r gula ion of pulmonary ventilations during quiet breathing

- **Reason** (**R**) : It is the load detection reflex that adjusts the tidal volume of an eupneic breathing.
- 114. Assertion (A) : Malignant cells are hyper hrom the

Reason (**R**) : Nuclei of malignant ell contain an abundance of DNA

- 115. Assertion (R) : Loeffler's syndrome is a clinical manifestation of ascariasis.
 - **Reason (R)** : Large amount of immunoglobulin E (IgE) is released into the circulation in Loeffler's syndrome.
- **116. Assertion (R) :** Supracondyl r racture of humerus leads to compartment syndrome

Reason (R) : Supracondylar fracture is associated with injury to brachial artery

- **117. Assertion (R) :** Prostaglandin E, is used in the .medical treatment of Buerger's disease.
 - **Reason (R)**: Prostaglandin E, produces maximal vasodilation and inhibits platelet aggregation.
- **118.** Assertion (**R**) : Sub-capital fracture femur is very common in elderly.

Reason (**R**) : Elderly patients suffer from osteoarthritis.

- **119. Assertion (R) :** In the lesion of the facial nerve below the stylomastoid foramen, there is a loss of taste in the anterior two-third of the tongue.
 - **Reason (R)** : The chorda tympani branch of the facial nerve carries the taste fibres for the anterior two-third of the tongue.

120. Assertion (R) : Tuberculoid leprosy is associated with a heavy bacillary load.

Reason (R) : Cell-mediated immune response is intact with infiltration of helper T-cells in the skin of patients of tuberculoid leprosy.