# MD/MS/PG Diploma Entrance Test - 2013 QUESTION BOOKLET

Paper - I (Pre-Clinical & Para-Clinical)

imum	Time Allowed	No. of Questions : 1: Maximum Marks : 1:				
No.			Answer Sheet No.			

### INSTRUCTIONS

#### ASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

Check the booklet thoroughly: In case of any defect - Misprint, Missing Question(s) or duplication of question(s). Page(s) get the booklet changed with the booklet of the same series from the Room Invigilator. No complaint shall be entertained after the entrance test.

Write your Roll Number and Answer Sheet No. in the space provided on the Question Booklet and on the OMR Answer Sheet. Incomplete and/or incorrect particulars will result in the non-evaluation of your answer sheet.

Strictly follow the instructions given by Centre Supervisor / Room Invigilator and those given on the Question Booklet

Candidates are not allowed to carry any papers, notes, books, calculators, mobile phones, scanning devices etc. ir the Examination Hall. Any candidate found using or in possession of such unauthorized material or indulging in copying or impersonation or adopting unfair means / reporting late / without Admit Card will be debarred from the Written Test

Use ONLY blue/black ball point pen for darkening the circles on the OMR Answer Sheet. Use of eraser, whitener (fluid and cutting on the OMR Answer Sheet is not allowed.

The test is of objective type containing multiple choice questions (MCQs). Each objective question is followed by four responses. Choose the correct/best response and mark your response on the OMR Answer Sheet and not in the Question Booklet.

Completely darken the CIRCLE so that the number inside the CIRCLE is not visible as shown in the example below

Correct Method Wrong Methods

1 3 4

wrong method

① 8 3 4/0 8 3 4/0 5 3 4/0 6 3 4/0 6 3 €

Darken ONLY ONE CIRCLE for each answer. If you darken more than one circle, it will be treated as a wrong answer

Mark answer only in the space provided. DO NOT make any stray mark anywhere on the OMR Answer Sheet. DO NOT fold or wrinkle the OMR Answer Sheet. Rough work MUST NOT be done on the answer sheet. Use your question bookle for this purpose.

Candidates are provided carbonless OMR Answer Sheet (optical mark reader answer sheet) having original copy and candidate's copy. After completing the examination candidates are directed to fold at perforation at the top of sheet tear it to separate original copy and candidate's copy and then hand over the original copy of OMR Answer Sheet to the Room Invigilator and take candidate's copy with them.



## MD/MS/PG Diploma Paper - I (Pre-Clinical & Para-Clinical)

1301/(

Bansdola is a type of

- 1. accidental hanging
- 2. homicidal hanging
- 3. homicidal strangulation
- 4. accidental strangulation

Euthanasia is

- 1. recently recognized in India
- 2. recognized world wide
- 3. not followed in any country
- 4. none of these

Constricted pupils dilated on stimulation e.g. pinching in unconscious patient suggests

- 1. dhatura poisoning
- 2. alcohol poisoning
- 3. morphine overdose
- 4. cocaine poisoning

Which of the following is related with Sin of Gomorrah?

- 1. Sodomy
- 2. Bestiality
- 3. Cunnilingus
- 4. Masochism

Cause of death in hydrocution is

- 1. severe electrolyte imbalance
- 2. asphyxia
- 3. reflex cardiac inhibition
- 4. coma

Consider the following statements in relation with firearm entry and exit wounds on skull:

- A. clean hole in inner table of entry wound
- B. bevelled opening in outer table of entry wound
- C. bevelled opening in inner table of exit wound
- D. clean hole in outer table of exit wound

Choose the correct option:

- 1. A is false
- 2. B and D are true
- 3. A, B and D are true
- 4. All are false

Under the NDPS Act 1985, following drugs are included, except

- 1. opium/heroin
- 2. hashish
- 3. amphetamine
- 4. dhatura
- 3. Phytotoxin abrin is obtained from
  - 1. marking nut

- 9. A positive Breslau's second life test indicates
  - 1. air in the respiratory tract
  - 2. air in the stomach and intestine
  - 3. mummification
  - 4. dead born foetus
- 10. Which of the following pairs is incorre matched?
  - 1. 299 IPC → Culpable homicide
  - 2. 300 IPC → Murder
  - 3. 309 IPC → Abetment of suicide
  - 4. 319 IPC → Hurt
- 11. The declaration of Oslo 1970 was in relation to
  - 1. therapeutic abortion
  - 2. bioterrorism
  - 3. torture
  - 4. drug trafficking
- 12. Brown rhombic crystals are seen in
  - 1. Tiechmann's test
- 2. Florence test
- 3. Both 1 and 2
- 4. Takayama's test
- 13. Which of the following bacterium does not r Koch's postulate?
  - 1. Enterococcus faecalis
  - 2. Treponema pallidum
  - 3. Bacillus anthracis
  - 4. Brucella abortus
- 14. The structure which is responsible for respiration bacteria is
  - 1. mesosomes
  - 2. cytoplasmic membrane
  - 3. Golgi apparatus
  - 4. mitochondria
- 15. Oxidase Test is negative in which of the follo bacteria?
  - 1. Neisseria
- 2. Pseudomonas
- 3. Proteus
- 4. Vibrio
- 16. Spores of which of the following is used as biolo control of autoclave?
  - 1. Bacillus subtilis
  - 2. Bacillus stearothermophilus
  - 3. Clostridium septicum
  - 4. Clostridium perfringens
- 17. Which of the following is an example of surface a agent used as a disinfectant?
  - 1. Formalin
  - 2. Quarternary ammonium compounde

	3. IgM 4. IgA		<ol> <li>clostridium tetani</li> <li>vibrio cholerae</li> </ol>
<del>)</del> .	VDRL test is an example of 1. agglutination reaction 2. complement fixation test 3. neutralization test 4. flocculation test	28.	'Traveller's Diarrhoea' is caused by 1. shigella sonnei 2. enterotoxigenie E. coli 3. giardia lamblia 4. enteroinvasive E. coli
).	<ol> <li>Interleukin - 2 promotes</li> <li>growth of fibroblast</li> <li>maturation of macrophage</li> <li>B-cell differentiation</li> <li>expression of T-lymphocytes</li> </ol>	29.	'Koplik spots' are characteristically seen in 1. rubella 2. mumps 3. measles 4. cytomegalovirus
Ι.	Delayed hypersensitivity is mediated by  1. N K cell  2. B - Lymphocytes  3. T - Lymphocytes	30.	<ul><li>Which of the following establishes latent infecti</li><li>1. Herpes virus</li><li>2. Yellow fever virus</li><li>3. Coxsackie virus</li><li>4. Dengue virus</li></ul>
2.	<ul> <li>4. Eosinophils</li> <li>The second common cause of uncomplicated urinary tract infection (UTI) in women is</li> <li>1. proteus mirabilis</li> <li>2. escherichia coli</li> </ul>	31.	Japanese encephalitis is transmitted by 1. bed bug 2. tick 3. aedes mosquito 4. culex mosquito
<b>5</b>	staphylococcus aureus     staphylococcus saprophyticus	32.	'Negri bodies' are diagnostic for  1. variola 2. vaccinia 3. rabies 4. chickungunya
<b>3</b> .	Acute rheumatic fever is diagnosed by  1. Schick test  2. Dick test  3. ASO test  4. Paul-Bunnel test  Pneumococcal antigen in cerebro spinal fluid (CSF) is detected by	33.	The most common opportunistic infection in A patient in India is 1. toxoplasmosis 2. cryptococcosis 3. tuberculosis 4. cryptosporidiosis
5.	<ol> <li>ELISA</li> <li>haemagglutination</li> <li>latex agglutination</li> <li>flocculation</li> <li>Non-gonococcal urethritis in male is caused by</li> <li>coxiella burnetii</li> </ol>	34.	Osteoblastic skeletal metastasis characteristically seen in 1. breast carcinoma 2. renal cell carcinoma 3. prostatic carcinoma 4. bronchogenic carcinoma
6.	<ol> <li>coxlena burnetii</li> <li>chlamydia trachomatis</li> <li>candida albicans</li> <li>cryptosporidium parvum</li> </ol> Pseudomembranous colitis is associated with which	35.	'Psammoma body' is an example of  1. dystrophic calcification  2. dysplasia  3. metaplasia
	of the following antibiotic use?  1. Nalidixic acid 2. Clindamycin 3. Vancomycin 4. Chloramphenicol	36.	<ul> <li>4. metastatic calcification</li> <li>Which of the following human tissue is the resistant to irradiation?</li> <li>1. Lung</li> <li>2. Gonods</li> <li>3. Adult brain</li> <li>4. Bone marrow</li> </ul>
	•	ソ	

Most potent exotoxin is produced by 1. corynebacterium diphtheriae 2. clostridium botulinum

27.

3. Which of the following immunoglobulin crosses placental barrier?

2. lgG

1. lgE

In classical Hodgkins Lymphoma, the Reid-Sternberg cells are positive for

- 1. CD 15 & CD 30
- 2. CD 30 & CD 19
- CD 20 & CD 15
- 4. CD 19 & CD 10

Philadelphia chromosome in chronic myeloid leukemia can be demonstrated in

- 1. endothelial cell
- 2. myeloid series of cells
- 3. lymphocyte
- 4. all of these

The most common lung cancer in a nonsmoker is

- 1. squamous cell carcinoma
- 2. adenocarcinoma
- 3. small cell carcinoma
- 4. large cell carcinoma

Which of the following Hb is resistant to alkali denaturation?

1. HbA

2. HbA2

3. HbF

4. HbS

The largest cell in the development of myeloid series is

- 1. myeloblast
- 2. promyelocyte
- 3. myelocyte
- 4. metamyelocyte

In the maturation of the RBCs the Hb starts appearing in

- 1. early normoblast
- 2. late normoblast
- 3. pronormoblast
- 4. intermediate normoblast

#### Barret's oesophagous

- 1. is usually seen in upper one third of oesophagous
- 2. shows intestinal metaplasia on histology
- 3. is a neoplastic condition
- 4. has an increased incidence of squamous cell carcinoma

High mortality rate amongst pregnant women is usually associated with hepatitis virus 2. A infection

- 1. E infection
- 3. B infection
- 4. Cinfection

'Flea-bitten' appearance of kidney is seen in

- 1. chronic glomerulonephritis
- 2. malignant hypertension
- 3. chronic pyelonephritis

- Vegetations in Rheumatic heart disease 46.
  - 1. are infected in nature
  - 2. usually extend to mural endocardium an chordae tendineae
  - 3. usually produce ring abscess
  - 4. are small and warty along the line of closure valvular leaflet
  - 47. Nut-Meg liver is seen in
    - 1. amyloidosis liver
    - 2. cirrhosis liver
    - 3. chronic venous congestion liver
    - 4. hepatoma
  - Apoptosis is characterized by 48.
    - 1. cell shrinkage
    - 2. intense inflammatory reaction in surrounding ho tissue
    - 3. disruption of cell membrane
    - 4. nuclear swelling
  - Neutophil alkaline phosphatase is reduced in 49.
    - 1. chronic myeloid leukemia
    - 2. acute myeloid leukemia
    - 3. chronic neutrophilic leukemia
    - 4. sepsis
  - In ulcerative colitis 50.
    - 1. skip lesions are seen in intestine
    - 2. inflammation is limited to mucosa
    - 3. marked fibrosis of wall of colon is present
    - 4. fissuring & fistula are common manifestation
  - 51. Mycobacterium tuberculosis bacilli can multiply with phagosome by
    - 1. inhibiting alternate complement pathway
    - 2. suppressing cytotoxic T cells
    - 3. preventing fusion of phagosome with lysosome
    - 4. inhibiting Na+ K+ ATP-ase pump
  - Which of the following organisms is associated w 52. cervix cancer?
    - 1. Helicobacter pylori
    - 2. Human papilloma virus
    - 3. Epstein-barr virus
    - 4. Human herpes virus 8
  - Which of the following is the mode of inheritance 53. sickle cell anemia?
    - Autosomal dominant.
    - 2. X-linked dominant
    - 3. X-linked recessive
    - Autocomol recoccive

vvnich of the following stains is used for identification of amyloids? 1. Sudan black B 2. Congo red 3. Per iodic acid schiff 4. Masson fontana All of the following are prodrugs except 1. levo dopa 2. sulfasalazine 3. clonidine 4. prednisone Which of the following drugs undergoes acetylation reaction? 1. Morphine 2. Procainamide 3. Paracetamol 4. Dopamine Which of the following statements is correct about zero order kinetics? 1. A constant amount of drug in the body is eliminated per unit time 2. Rate of elimination is dependent on plasma drug concentration 3. The t½ of drugs undergoing zero order kinetic is always constant 4. Most drugs follow zero order kinetics

Which of the following drugs is not bound to the

Which of the following drugs does not undergo

Which of the following drugs is excreted primarily

Which of the following drugs does not require dose adjustment in the patient with renal impairment?

Which of the following drugs does not cross

2. Ampicillin

4. Estrogen

2. Isoniazid

4. Diazepam

2. Morphine

4. Digoxin

plasma proteins?

2. Ketoconazole 3. Lithium carbonate

4. Phenylbutazone

entero-hepatic recycling?

1. Penicillin

1. Penicillin

3. Digitoxin

unchanged?

3. Ethanol

1. Streptomycin

1. Gentamicin

3. Doxycycline

placental barrier?

1. Heparin

2. Propranolol

3. Indomethacin

4. Phenobarbitone

Which of the following fluoroquinolone is m 66. effective against gram positive bacteria a anaerobes? 1. Ciprofloxacin 2. Sparfloxacin 4 Lomefloxacin 3. Norfloxacin

Which of the following is the drug of choice

Hereditary deficiency of which of the follow

Which of the following drugs is not used in

treatment of multi-drug resistant tuberculosis?

enzyme leads to succhinylcholine apnea?

3. Glucose-6-phosphate dehydrogenase

2. Diltezam

4. Carbachol

paroxysmal supraventricular tachycardia?

63.

65.

1. Propranolol

Plasma cholinesterase

2. Alcohol dehydrogenase

4. Dopa decarboxylase

3. Adenosine

1. Tobramycin

2. Clarithromycin

3. Ciprofloxacin 4. Amikacin

- 67. Thalidomide is **not** indicated in which of the follow conditions? 1. Melanoma 2. Multiple myeloma
  - 3. Hodgkin's lymphoma 4. Erythema nodosum leprosum
- 68. Which of the following is an used to counter ac electrolyte imbalance?
  - 1. Folic acid
  - 2. Cyanocobalamin
  - 3. Potassium chloride
  - 4. Calcitriol
- All of the following statements about botulinum to 69. are true except
  - 1. there are eight known serotypes of natur produced botulinum toxin
  - 2. serotype A is the most widely used botulir toxin for clinical use
  - 3. serotype B is commercially available for clin
  - 4. the toxins blocks neurotransmission in the p synaptic end plate
- Which of the following is true about metronidazo 70.
  - 1. It is bacterostatic
  - 2. It inhibits bacterial protein synthesis
  - 3. It is most effective against gram positive bact
  - 4. Alcohol should be avoided while taking it

- All of the following are true about metformin except
  - 1. it is a biguanide
  - 2. it causes hypoglycemia in non-diabetics
  - 3. it causes anorexia and weight loss
  - 4. it can cause lactic acidosis
- Which of the following statements is true about carbimazole?
  - 1. It decreases thyroid hormone synthesis
  - 2. It inhibits peripheral conversion of T4 to T3
  - 3. It should be discontinued if rash develops
  - 4. It decreases the level of TSH
- Chronic administration of glucocorticoids results in all of the following except
  - 1. hypertension
  - 2. hyperkalemia
  - 3. proximal myopathy
  - 4. glaucoma
- Adverse effects of cyclosporine include all of the following **except** 
  - 1. tremor
  - 2. nephrotoxicity
  - 3. hirsutism
  - 4. hypokalemia
- Which of the following is true about latanoprost?
  - 1. It increases uveoscleral outflow
  - 2. It increases trabecular meshwork outflow
  - 3. It causes pupillary dilatation
  - 4. It causes iris hyperpigmentation
- Which of the following hormones **does not** use adenyl cyclase-CAMP as second messenger system?
  - 1. ACTH
- 2. Calcitonin
- 3. Secretin
- 4. Oxytocin

Which one of the following is the correct set of pH values for optimum action of enzymes?

- Pepsin pH 5.0 6.0
   Salivary amylase pH 2.0 3.0
   Secretin pH 5.5 6.5
- Pepsin pH 2.0 3.0
   Salivary amylase pH 4.0 5.0
   Secretin pH < 3.0</li>
- 3. Pepsin pH 4.5 5.5 Salivary amylase pH 3.2 - 3.5 Secretin pH 5.0 - 6.0
- 4. Pepsin pH 4.0 4.5
  Salivary amylase pH 3.0 4.0

- 78. Which of the following vitamins is synthesized intestinal bacteria and absorbed in signification quantities?
  - 1. Vitamin B
- 2. Vitamin K
- 3. Thiamine
- 4. Folic acid
- 79. All the following will cause an increase reabsorption of bicarbonate in the kidney **excer** 
  - 1. hyperaldosteronism
  - 2. hypercapnia
  - 3. metabolic acidosis
  - 4. hyperkalemia
- 80. The extra cellular potassium of a hyperkalemic patican be decreased by administering
  - 1. atropine
- 2. epinephrine
- 3. glucagon
- 4. lactic acid
- 81. Which of the following is **not** a metabolic function
  - 1. Inactivation of angiotensin II
  - 2. Inactivation of prostaglandins
  - 3. Synthesis of prostaglandins
  - 4. Synthesis of surfactant
- Hypoxia (Pa O<sub>2</sub> = 55 mm Hg) has all the follow effects except
  - 1. it stimulates carotid body chemoreceptor
  - 2. it stimulates central chemoreceptor
  - 3. it causes a reflex increase in ventilation
  - 4. it causes a reflex increase in arterial BP
- 83. Which of the following will increase as a resul stimulating parasympathetic nerves to the bronc smooth muscle?
  - 1. Lung compliance
  - 2. Elastic work of breathing
  - 3. Resistive work of breathing
  - 4. Airway diameter
- 84. Male hypogonadism could be produced by a les in all the following sites **except** 
  - 1. testes
  - 2. pituitary gland
  - 3. pineal gland
  - 4. globus pallidus
  - 85. Which of the following hormones **does not** exe trophic effect?
    - 1. TSH

- 2. Prolactin
- 3. ACTH
- 4. FSH
- 86. Stroke volume will be increased by increasing contractile activity of all the following **except** 
  - 1. venous vessels
  - 2: arterial vessels
  - 3. ventricles

Blood pressure increases and heart rate decreases in response to

- 1. exercise
- 2. increased body temperature
- 3. exposure to high altitude
- 4. increased intra cranial pressure

Connexon is an important component of the

- 1. gap junction
- 2. sarcoplasmic reticulum
- 3. synaptic vesicle
- 4. sodium channel

In a healthy adult who is alert and sitting with eyes closed, the dominant EEG rhythm observed with electrodes over the occipital lobes is

- 1. delta (0.5 4 Hz)
- 2. theta (4 7 Hz)
- 3. alpha (8 13 Hz)
- 4. beta (18 30 Hz)

Narcolepsy is triggered by abnormalities in the

- 1. skeletal muscles
- 2. hypo thalamus
- 3. medulla oblongata
- 4. neocertex

Vitamin A is a precursor for the synthesis of

- 1. somatostatin
- 2. retinene 1
- 3. scotopsin
- 4. aqueous humour

Which of the following was launched as a flagship programme of Government of India in 2005?

- 1. RNTCP
- 2. NRHM
- 3. IDSP
- 4. NLEP

Which one of the following is not an intrinsic factor or determinant of health?

- 1. Genetic background
- 2. Health related behaviour
- 3. Industrialization
- 4. Immunological background

Which of these is not a theory of disease causation?

- 1. Epidemiological triad
- 2. Web of causation
- 3. Germ theory
- 4. Risk factor theory

In case of exposure, how many doses of cell culture vaccine should be given as post exposure prophylasis to individuals who have received complete preexposure vaccination?

- 1. One dose of 1M or 1D
- 2. Two doses of 1M or 1D
- 3. One dose of intramuscular or intradermal plus RIG
- 4. Two doses of 1M or 1D plus RIG

- 96. HIV testing is not mandated for which of the following?
  - 1. Epidemiological survey
  - 2. Blood screening
  - 3. Planned surgery
  - 4. Testing as part of clinical management
- Qualitative data cannot be graphically depicted t 97.
  - 1. multiple bar chart
  - 2. histogram
  - 3. pie chart
  - 4. component bar chart
- Which of the following statements is true for biochemical oxygen demand of sewage?
  - 1. Amount of oxygen required to oxidise the orgar
  - 2. Amount of oxygen absorbed by a sample sewage during a specified period
  - 3. Amount of carbon dioxide and water release from a sewage sample
  - 4. Sewage with BOD of 100 mg/l or below is terme as strong
- During the pollution under control (PUC) check 99. vehicles, which gas is checked?
  - 1. NO,

- 2. CO
- 3. Particulates
- 4. SO,
- 100. Which is not a contraindication for oral contracepti pill use?
  - 1. Anaemia
  - 2. Hyperlipidemia
  - 3. Urrhosis ofliner
  - 4. Unexplained vaginal bleeding
- 101. Emergency contraceptive if taken appropriately c prevent
  - 1. 90% of pregnancies
  - 2. 50% of pregnancies
  - 3. 75% of pregnancies
  - 4. 25% of pregnancies
- 102. Which of these activities is not carried out at Anganwari as a routine?
  - 1. Supplementary nutrition
  - 2. Immunization
  - 3. Non formal education
  - 4. Health education
- 103. Which one of these is an ideal method for ra control of vectors in epidemic situations?
  - Residual spraying
     Fumigation

  - 3. Space spraying
  - 4. Adding temephos to potable water

- 3
- 4. Fortification of foods with specific nutrients is an example of
  - 1. primodial prevention
  - 2. primary prevention
  - 3. secondary prevention
  - 4. tertiary prevention
- Government of India formed the following committee to give recommendations to solve the problem of child labour in India
  - 1. Mudaliar
- 2. Gurupadswamy
- 3. Tendulkar
- 4. Ramakrishna
- In the national nutritional programme 'Balahar' which food item is used most?
  - 1. Eggs
- 2. Soyabean
- 3. Ground nut
- 4. Sprouts
- Inactivated polio vaccine is contraindicated in the following condition
  - 1. pregnancy
  - 2. polio epidemic
  - 3. immune compromised
  - 4. age above 50 years
- Commonest cause of death associated with measles is
  - 1. severe diarrhoea
  - 2. measles encephalitis
  - 3. subacute sclerosing panencephalitis
  - 4. pneumonia
- 9. Which one of the following vaccines should never be frozen?
  - 1. Diptheria toxoid
  - 2. Oral polio vaccine
  - 3. MMR
  - 4. BCG
- Continuation phase for MDR tuberculosis is
  - 1. 6 months
- 2. 12 months
- 3. 18 months
- 4. 24 months
- 1. Extra pulmonary tuberculosis comprises of
  - 1. 25% of all new infections
  - 2. 50% of all new infections
  - 3. 10-15% of all new infections
  - 4. 5% of all new infections
- 2. Breast self examination should be conducted preferably once
  - 1. a month ten days after the menstrual period
  - 2. a month ten days before the menstrual period
  - 3. a week

- 113. Which of the following statements is false?
  - Male health worker administers antimalar treatment
  - 2. Traditional birth attendants are trained for a peri of 30 days to conduct safe deliveries
  - 3. The work of Anganwari centre is supervised CDPO
  - The male health worker is paid by Sta Government and female health worker by Cent Government
- 114. According to amendment in Births And Deat Registration Act, the births and deaths are require to be notified within \_\_\_\_\_\_ days to the registr
  - 1. 7

2. 14

3. 21

- 4. 30
- 115. Surveillance of which type is **not** conducted und NACP III?
  - 1. AIDS case surveillance
  - 2. Sentinel surveillance
  - 3. Blood safety surveillance
  - 4. Behavioural surveillance
- 116. As per ILO which of the following is **not** pneumoconiosis?
  - 1. Silicosis
  - 2. Anthracoses
  - 3. Bagassosis
  - 4. Asbestosis
- 117. Cornea is lined by
  - 1. pseudostratified epithelium
  - 2. transitional epithelium
  - 3. stratified squamous keratinized epithelium
  - 4. stratified squamous non keratinized epitheliu
- 118. Upper border of sternum lies at the level of
  - 1. upper border of first thoracic vertebra
  - 2. lower border of first thoracic vertebra
  - 3. upper border of second thoracic vertebra
  - 4. lower border of second thoracic vertebra
- 119. The diaphragm is at the lowest level in
  - 1. sitting position
  - 2. supine position
  - 3. standing position
  - 4. prone position
- 120. Lymphatics from glans penis drains into which following lymph nodes
  - 1. superficial inguinal
    - 2. deep inguinal
    - 3. internal iliac

- Sphenopalatine ganglion is a

   sympathetic ganglion
   parasympathetic ganglion
   pseudo ganglion
   sensory ganglion

   Left ovarian vein drains into

   inferior vena cava
   left renal vein
   inferior mesenteric vein

   splenic vein
- 3. Callot's triangle is bounded by all of the following except
  - 1. hepatic artery
  - 2. common hepatic duct
  - 3. inferior border of liver
  - 4. cystic duct
- 4. The following group of lymph nodes receives lymphatics from the uterus **except** 
  - 1. external iliac
  - 2. internal iliac
  - 3. superficial inguinal
  - 4. deep inguinal
- 5. Bowman's glands are located in
  - 1. nasal cavity
- 2. pharynx
- 3. larynx
- 4. vestibule
- 6. Activated B lymphocytes give rise to
  - 1. pericytes
- 2. macrophages
- 3. mast cells
- 4. plasma cells
- 7. The nerve responsible for fine movement of hand is
  - 1. radial
    - 2. median
    - 3. posterior interosseus
    - 4. ulnar
- Injury of which of the following nerves results in loss of patellar reflex
  - 1. tibial

- 2. common peroneal
- 3. obturator
- 4. femoral
- 29. The blood-brain barrier is present in which of the following sites
  - 1. choroid plexus
  - 2. area postrema
  - 3. spinal cord
  - 4. pituitary
- A lesion of extrapyramidal system exhibits the following signs and symptoms except
  - 1. athetosis
  - 2. hemiballismus
  - 3. intention tremors
  - 4. chorea

- 131. Mucus secreting glands are absent in
  - 1. cervix
- 2. oesophagus
- 3. duodenum
- 4. vagina
- 132. Which one of the following muscles is spared in uln nerve injury at wrist?
  - 1. Palmar interossei
  - 2. Dorsal interossei
  - 3. Adductor pollicis
  - 4. Opponens pollicis
- 133. At Iso-electric pH, an amino acid bears
  - 1. no net charge
    - 2. positive charge
    - 3. negative charge
    - 4. amphipathic
- 134. Alpha helix and beta pleated sheet are examples
  - 1. primary structure
  - 2. quaternary structure
  - 3. tertiary structure
  - 4. secondary structure
- 135. After digestion by restriction endonucleases D strands can be joined again by
  - 1. DNA polymerase
  - 2. DNA ligase
  - 3. DNA topoisomerase
  - 4. DNA gyrase
- 136. The vitamin which is **not** essential for citrc acid cy is
  - 1. riboflavin
  - 2. niacin
  - 3. pantothenic acid
  - 4. retinoic acid
- 137. Regulation of blood glucose after a meal is ma dependent on
  - 1. hexokinase
  - 2. glucokinase
  - 3. phosphofructokinase
  - 4. pyruvate kinase
- 138. Lipoprotein lipase is located in
  - 1. small intestine
  - 2. peripheral nerve
  - 3. walls of blood capillaries
  - 4. hepatic receptors
- 139. Ribozymes are
  - 1. RNA molecules with catalytic activity
  - 2. enzymes of retina
  - 3. promoters
  - 4. poly (A) polymerase

- D. Regulation of Prokaryotic gene expression includes
  - 1. chromatin re-modelling
  - 2. histone covalent modification
  - 3. enhancer elements
  - 4. de-repression of a gene
- Lack of reaction to our own human leukocyte antigens (HLA'S) is known as?
  - 1. Autoimmunity
  - 2. Complement system
  - 3. Tolerance
  - 4. Suppression
- 2. Calcium is required for the following, except
  - 1. coagulation
  - 2. neuromuscular transmission
  - 3. absorption of iron
  - 4. intracellular messenger
- 3. Biochemical function of vitamin K includes
  - 1. conversion of proline to hydroxyproline
  - 2. conversion of lysine to hydroxylysine
  - 3. gamma carboxylation of clotting factors
  - 4. inhibition of lipid peroxidation in biomembranes
- 4. In respiratory acidosis, patient will show which of the following features?
  - 1. A low P CO<sub>2</sub>
  - 2. Lowered plasma bicarbonate
  - 3. Decreased rate and depth of respiration
  - 4. Decreased hydrogen ion concentration in plasma
- Haemolytic transfusion reactions occur usually due to incompatible
  - 1. agglutinins present in the recipient's blood
  - 2. agglutinins present in the donor's blood
  - 3. agglutinogens present in the recipient's blood
  - agglutinins present both in the recipient's and donor's blood

- 146. Which of the following statements is corre regarding the physiological basis of ABO system
  - 1. H antigen is the basic antigen and is found in a individuals
  - 2. In antigen A the terminal sugar is galactose
  - 3. In antigen B the terminal sugar is N-acet galactosamine
  - 4. In group O persons both transferases are prese so that antigen H does not persist in them
- 147. Blood doping indicates
  - 1. introducing drugs into blood
  - 2. taking donor's blood with drugs
  - 3. athletes storing their own blood or RBÇ and the reinjecting in 2-3 sessions a few days before a event
  - 4. accidental injection of drugs into blood
- 148. Blood in a blood bank is stored in
  - 1. heparin
  - 2. double oxalate
  - 3. vitamin K
  - 4. citrate phosphate dextrose adenine mixture
- 149. The earliest effects of a mismatched transfusion
  - 1. transmission of disease
  - 2. circulatory shock
  - 3. severe pain in the body with a sense of suffocation and tightness in the chest
  - 4. renal failure
- 150. All the following are absolute indications for bloc transfusion **except** 
  - 1. chronic anaemias
  - 2. bleeding disorders
  - 3. acute haemorrhage
  - 4. chronic renal failure

