100054

## 2010 MEDICAL SCIENCE (Optional) Paper : I

Standard: Degree Total Marks: 200

Nature : Conventional Duration : 3 Hours

## Note:

- (i) Answers must be written in English.
- (ii) Question No. 1 is Compulsory. Of the remaining questions, attempt any four selecting one question from each section.
- (iii) Figures to the RIGHT indicate marks of the respective question.
- (iv) Number of optional questions upto the prescribed number in the order in which they have been solved will only be assessed. Excess answers will not be assessed.
- (v) Credit will be given for orderly, concise and effective writing.
- (vi) Candidate should not write roll number, any name (including their own), signature, address or any indication of their identity anywhere inside the answer book otherwise he/she will be penalised.
- (vii) For slab of 10 marks, the examinee is expected to write answers in 125 words.
- Answer any four of the following (10 Marks each): (40 Marks)
   (a) Describe Larynx under following heads:

   (i) Skeletal framework
   (ii) Intrinsic muscles of Larynx
   (iii) Nerve supply
   (iv) Applied anatomy
  - (b) Enumerate the hormones of anterior pituitary gland and describe the functions 10 of growth hormone.
  - (c) What is Diabetes Mellitus. How it is classified. Discuss laboratory investigations 10 in a case of Diabetes Mellitus.
  - (d) Enumerate organisms causing meningitis. Discuss lab diagnosis of acute meningitis 10
  - (e) Write briefly on Any Two:
    - (i) Clinical importance of Drug Half life.
    - (ii) Adrenaline in Anaphylactic shock.
    - (iii) Pralidoxime in organophosphorus poisoning.

P.T.O.

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		$\mathbf{M}$	arks
		SECTION - A	
2.	Ans	wer the following sub-questions :	
	(a)	Describe constrictors of the pharynx and add a note on swallowing mechanism	10
	(b)	Describe coronary circulation and its applied anatomy.	10
	(c)	Describe formation and fate of uro-genital sinus	10
	(d)	(i) Amniocentesis	5
		(ii) Phenylkitonuria (PKU)	5
3.	Ans	wer the following sub-questions :	
	(a)	Define inversion and eversion of foot and describe the muscles causing these movements .	10
	(b)	Enumerate layers of scalp and add a note on applied anatomy of scalp.	10
	(c)	(i) Development of right atrium of heart	5
		(ii) Atrial septal defects	5
	(d)	Autosomal recessive inheritance	10
	٠	SECTION - B	
4.	Ans	wer the following sub questions :	
	(a)	Define cardiac output and describe the factors regulating it.	10
	(b)	Describe the errors of refraction.	10
	(c)	Describe the classification of carbohydrates. State why sucrose is a non-reducing sugar, while maltose is a reducing sugar.	10
	(d)	Describe $\beta$ oxidation of fatty acids. Write a note on energetics of palmitic acid.	10
5.	Ans	wer the following sub questions :	
	(a)	Rh blood group.	10
	(b)	Deglutition.	10
	(c)	Describe various liver function tests. State how different diagnostic enzymes are used for differential diagnosis of jaundice.	10
	(d)	Write a note on various detoxication mechanisms, giving one example each.	10
		SECTION - C	
6.	Ans	wer the following sub questions:	
	(a)	How leprosy is classified. Tabulate differences between lepromatous and Tuberculoid leprosy.	10
	(b)	Define and classify cirrhosis. Discuss clinical features and laboratory investigations in a case of cirrhosis of liver.	10
	(c)	Define Sterilisation, disinfection and antisepsis. Enumerate methods of sterilisation using moist heat stating their use in hospital setting.	10
	(d)	Enumerate parasites infecting brain. Discuss life cycle and laboratory diagnosis of malarial parasites.	10

		Ma	arks	
7.	Answer the following sub questions:			
	(a)	Define anemia. How will you investigate a case of iron deficiency anemia?	10	
	(b)	Discuss etiology, gross and microscopic features of lung tumours.	10	
	(c)	Define and enumerate causes of pyrexia of unknown origin (PUO) Mention laboratory diagnosis of Enteric fever.	10	
	(d)	Enumerate viruses transmitted via sexual route. Mention modes of transmission of Hepatitis B Virus infection. Give brief account of vaccines available for Active Immunisation against hepatitis B virus infection. Mention immunization schedule.	10	
		SECTION - D		
8.	Ans	wer following sub questions :		
	(a)	Describe development & management of drug dependence with suitable examples.	10	
	(b)	Write briefly any two:	10	
		(i) Radio iodine		
		(ii) Adverse effects of oral contraceptive pills		
		(iii) Vitamin A		
	(c)	Define Infanticide. What are the autopsy findings of dead born foetus and Live born foetus? What are the possible un-natural causes of infant death.	10	
	(d)	Define & discuss infamous conduct with suitable examples. What are the duties of medical practitioner? What are the privileges and rights of the patients?	10	
9.	Ans	wer following sub questions :		
	(a)	Describe prevention and management of Adverse Drug Reactions with suitable examples.	10	
	(b)	Describe use and ADR of multi Drug therapy in Tuberculosis.	10	
	(c)	Classify sexual offences with suitable examples. Discuss examination of victim and accused of Rape with preservation of evidential material from Accused and Victim.	10	
	(d)	Classify Asphyxiants. Discuss physical characteristics, action, sources, signs & symptoms, effect of different air concentration, treatment, post mortem appearance, medicolegal importance and viscera preservation in poisoning due to 'CARBON MONOXIDE'.	10	