2006

MEDICAL SCIENCE - I (Optional)

000054

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 will be penalised.
- (vii) For slab of 10 marks, the examinee is expected to write answers in 125 words.

1. Answer any four of the following (10 marks each):

10 Describe the coronary arteries under following heads: Diagram and Branches (i) Applied anatomy (ii) Describe composition and functions of Gastric juice and give an account of phases 10 and regulation of gastric juice. Define acute inflammation. Describe cellular events in Acute inflammation. 10 (c) Enumerate organisms causing urinary tract infection. Describe Laboratory 10 (d) diagnosis of urinary tract infection. 10 Write in brief on any two of the following: (e) Therapeutic uses of α-Blocking agents (i) Therapeutic uses of ACE inhibitors (ii)(iii) Low molecular weight heparin

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		SECTION - A	Marks
2.	A	nswer the following sub-questions:	
	(a		10
	(b)	Describe the venous drainage of lower limb under the following heads: (i) Course and relation of great saphenous vein (ii) Perforating veins (iii) Test for varicose vein	10
	(c)	Write short answer on any two : (i) In vitro Fertilization (ii) Primitive Streak (iii) Function of Placenta	10
	(d)	Write short answer on any two: (i) Microstructure of testis (ii) Transitional epithelium (iii) Karyotyping	10
3.	Ans	wer the following sub-questions :	
	(a)	Write short answer on any two: (i) Classification of joints with examples (ii) Blood supply of long bone (iii) Typical spinal nerve	10
	(b)	Describe the mammary gland under following heads: (i) Gross anatomy (ii) Blood supply and lymphatic drainage (iii) Applied anatomy	10
	(c)	Write short answer on any two: (i) Development and anomalies of thyroid gland (ii) Development of right atrium of heart (iii) Cleft lip and cleft palate	10
	(d)	Write short answer on any two: (i) Down's syndrome (ii) Perinatal diagnosis (iii) Histology of fundic part of stomach	10

Marks

SECTION - B

4.	Ans	wer the following sub-questions :				
	(a)	Give an account of nervous regulation of respiration.	10			
	(b)	Define erythropoiesis, Describe factors essential for erythropoiesis.	10			
	(c)	Define Polysaccharides and describe the glycogen metabolism with its regulation.	10			
	(d)	Describe the pathway of heme biosynthesis. Add a note on porphyrias.	16			
5.	Answer the following sub-questions:					
	(a)	Define arterial blood pressure. Enumerate different regulatory mechanisms of blood pressure.	10			
	(b)	Enumerate the hormones secreted by Ant. pituitary. Describe action of growth hormone.	10			
•	(c)	Describe sources, biochemical functions, deficiency disorder, daily requirement of Vitamin A.	10			
	(d)	Write short answer on any two:	10			
		(i) Fatty liver and lipotrophic factors.				
		(ii) Role of liver in blood sugar regulation.				
		(iii) Tubular function test.				
		SECTION - C				
6.	Answer the following sub-questions:					
	(a)	Define amyloidosis. Describe physical and chemical properties of Amyloid.	10			
	(b)	Describe liver cirrhosis. Describe etio-pathogenesis of alcoholic cirrhosis.	10			
	(c)	Classify micro-organisms. What are the various aspects for the identification of micro-organism.	10			
	(d)	Enumerate viruses causing hepatitis. Discuss clinical features, laboratory diagnosis of Hepatitis A.	10			

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7.	Ans	M wer the following sub-questions:	arks		
	(a)	Discuss various blood transfusion reactions. How will you investigate a case of haemolytic reaction.	10		
	(b)	Classify lung tumours. Describe etiology and gross pathology of Bronchogenic carcinoma.	10		
	(c)	Enumerate the micro-organism causing upper respiratory tract infection. Give laboratory diagnosis of Streptococcus Pyogens.	10		
	(d)	Describe life cycle, pathogenicity and laboratory diagnosis of Ancylostoma duodenale.	10		
		SECTION - D			
8.	Answer the following sub-questions:				
	(a)	Define Antagonism. What are the various types of Antagonism? Give examples and significance.	10		
	(b)	Write short answer on any two : (i) Oral antidiabetic agents (ii) Vitamin B ₁₂ (iii) Adverse effect of corticosteroid	10		
	(c)	Enumerate various injurious, write detail on laceration.	10		
	(d)	Classify poisons. Describe signs, symptoms and management of Acute alcohol poisoning.	10		
9.	Ans	wer the following sub-questions :			
	(a)	Enumerate calcium channel blockers. Describe therapeutic uses and adverse effect of calcium channel blockers.	10		
	(b)	Enumerate anti-malarial agents. Describe adverse effect and therapeutic uses of chloroquine.	10		
	(c)	How you will establish an identity of an individual? Describe in detail about fingerprint system.	10		
	(d)	Discuss on "Restrain of mentally ill person".	10		