

AKR/43/16

2016-17

MEDICAL SCIENCE

FIRST PAPER

Full Marks : 200

Time : 3 hours

The figures in the margin indicate full marks
for the questions

PART—A

Answer any **eight** questions

1. Draw a diagram of 'circle of Willis'. Name the arteries supplying the brain. Mention the important investigations done in case of stroke. $8+4+8=20$
2. What are the different causes of splenomegaly? Discuss the surgical management of portal hypertension. $10+10=20$
3. What are fat-soluble vitamins? Name them. Describe calcium metabolism and related deficiency diseases. $6+7+7=20$

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(Turn Over)

4. Write about the structure and function of kidney. Mention few causes of nephrotic syndrome. Outline prognosis of nephrotic syndrome. $8+6+6=20$
5. What is drug addiction and what are the criteria to call a person drug addict? State its preventive measures. $12+8=20$
6. Write briefly about iodine metabolism. Discuss the management of hypothyroid state. What are the sources of iodine in food? $8+8+4=20$
7. Describe the physiology of menstrual cycle. Draw the stages of cycle and influence of hormones in mucosa of uterus. $8+12=20$
8. Discuss erythropoiesis with diagram. Write about diagnosis and principle of management of a case of CML (chronic myeloid leukemia). $8+6+6=20$
9. Classify diabetes mellitus. What is type II diabetes mellitus? Discuss the complications of type II diabetes mellitus. $5+5+10=20$
10. Discuss the mechanism of gaseous exchange at the alveolar level of lungs. How will you treat a case of pulmonary tuberculosis category I? Mention the side effects of common anti-tubercular drugs. $8+6+6=20$

11. How is age determined in forensic medicine?
Describe the importance of imaging science
in forensic medicine. 8+12=20
12. What is the basic model of nuclear family?
Discuss the various cultural factors in health
and disease. 10+10=20

PART—B

13. Answer/Write on any *five* of the following : 8×5=40
- (a) Write the laboratory diagnosis of
HIV infection. What is post-exposure
prophylaxis? 4+4=8
- (b) Etiology and preventive measures of
dengue fever 3+5=8
- (c) GIST 8
- (d) Down's syndrome 8
- (e) Classify bronchial carcinoma. 8
- (f) Diagnosis of poisonous snakebite and
its management 8
- (g) Horner's syndrome 8
- (h) Blood gas analysis 8
