



[This question paper contains 02 printed pages]

Himachal Pradesh Administrative Service Combined Competitive (Main /
Written) Examination, 2020

MEDICAL SCIENCE (PAPER-I)

Time allowed: Three Hours

Maximum Marks: 100

QUESTION PAPER SPECIFIC INSTRUCTIONS

Please read each of the following instructions carefully before attempting questions.

1. There are EIGHT questions printed in English.
 2. Candidate has to attempt FIVE questions in all.
 3. Question No.1 is compulsory. Out of the remaining SEVEN questions, FOUR are to be attempted.
 4. All questions carry equal marks. The number of marks carried by a question / part is indicated against it.
 5. Write answers in legible handwriting. Each part of the question must be answered in sequence and in the same continuation.
 6. Illustrate your answers with suitable sketches and diagrams, wherever considered necessary. Coloured pencils may be used for the purpose.
 7. Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in answer book must be clearly struck off.
 8. Re-evaluation / Re-checking of answer book of the candidate is not allowed.
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1. (a) Discuss 'Adult Immunization' schedule. Enumerate clinical conditions where post-exposure prophylaxis is advocated. (10)
(b) Enumerate the vector born diseases and its vector. Enumerate and discuss the salient features of National Health programmes. (10)
2. (a) Describe anatomy of heart valves and genesis of normally heard heart sounds. (10)
(b) What are newer Anti tubercular drugs and its side effects. What are the Indications / guidelines to use newer anti-tubercular drugs? (10)
3. (a) Describe the causes of Microcytic Anemia and write its diagnostic workup. (10)

- (b) Discuss the stages of Drug development. Describe phases of clinical trial of drugs. (10)
4. (a) Classify and Describe DMARD. (10)
- (b) What is a Bence-Jones protein? How it is tested and its clinical significance in the diagnosis of disease? (10)
5. (a) Define term Sterilization, Disinfection, Cleaning and Decontamination. Classify various agents used in sterilization. (10)
- (b) Classify hypersensitivity reactions and discuss features with examples. (10)
6. (a) Describe Blood group systems and Discuss ABO blood group system. What is universal plasma? (10)
- (b) Describe patho-physiology of COVID-19 infection. (10)
7. (a) What are fat soluble vitamins, their source and recommended dietary allowance (RDA)? (10)
- (b) Describe Urinary bladder physiological functions and discuss types of bladder dysfunction. (10)
8. (a) Describe medico-legal aspect of Hanging. How to differentiate between Anti-mortem and Post-mortem hanging? (10)
- (b) What are notifiable diseases in India? Describe National Disaster Management Act (2005) and its objectives. (10)
