

2018

MEDICAL SCIENCE – PAPER-I

Full Marks : 200

Time Allowed : 3 Hours

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

Answers may be written either in English or in Bengali but all answers must be in one and the same language

1. Answer any four Questions :- 10x4
- Briefly describe the origin, insertion, blood supply, nerve supply and clinical anatomy of Deltoid muscle.
 - Enumerate the muscles of hand and mention their nerve supply and functions.
 - Describe briefly the pathway and tributaries of Saphenous vein.
 - Write a note on Arterial Circle of Willi's.
 - Give a summary of Krebs citric acid cycle.
 - Write a note on ketone body synthesis, utilisation and excretion.
2. Answer any four Questions :- 10x4
- Briefly describe events of Cardiac Cycle.
 - Differentiate between Isotonic & Isometric muscle contraction.
 - Briefly describe the physiology of neuro-motor junction and mention the diseases associated with it.
 - Describe in brief how the Kidneys regulate water absorption in the body.
 - Mention the salient features of genetic code.
 - Give a brief note on formation, activation and regulation of Vitamin D in the human body.
3. Answer any four Questions :- 10x4
- Write the classification of streptococcus. Add a note on group B streptococcus.
 - Describe the types of genetic transfer in a bacteria.
 - What is a granuloma ? Describe the mechanism of granuloma formation.
 - Describe the mechanism of cell injury.
 - What is paraneoplastic syndrome ? Enumerate some papaneoplastic sundomes.
 - Differentiate between chronic Bronchitis and Predominant emphysema.
4. Answer any four Questions :- 10x4
- Mention adverse effects of phenytoin.
 - Classify Anti arrhythmic drugs.
 - Write a note on Cell Wall synthesis inhibitor antimicrobials.
 - Enumerate the uses of beta-blockers.
 - Differentiate between innate immunity and adoptive immunity.
 - Differentiate between Rickettsia, organism, mycoplasma and chlamydia.

5. Answer any four Questions :-

10x4

- a) Describe the clinical features and management of organophosphorous poisoning.
- b) Write a note on Methyl Alcohol poisoning.
- c) Briefly define rape and mention the punishment of rape in India.
- d) Describe the definite signs of death due to antemortem hanging.
- e) What are the types of evident ? Differentiate between dying declaration and dying deposition.
- f) What is hurt ? Describe grievous hurt.

