

Time: 3 hours

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First Year MBBS Examination I MBBS BIOCHEMISTRY PAPER I



- Palmitic acid www.FirstRanker.com
- c. Albumin
- d. Ethanol
- b. All are true regarding genetic code except:
 - a. Ambiguous
 - b. Degenerate
 - c. Non- overlapping
 - d. Universal
- c. Enzyme playing role in prevention of aging:
 - a. DNA polymerase
 - b. Topoisomerase
 - c. Deoxyribonuclease
 - d. Telomerase
- d. Which of the following process make use of free radical effect:
 - a. Cell adhesion
 - b. Phagocytosis
 - c. Contact inhibition
 - d. Transcytosis
- "Is sulfer cou 3. A 30 year old woman presented to OPD with jaundice. Her serum alkaline phosphatase levels found to be ten times higher than reference range.
- a. What is the probable diagnosis? (15)
- b. What are the different liver enzymes used to diagnose the liver disease?
- c. Which type of bilirubin is high in this patient?
- d. What are the different markers used to assess the synthetic functions of liver?
- e. What are the urine and stool findings in this condition?
- 4. Write short notes on: (10)



- b. Properties of genetic code.
- c. IgA
- d. Useful effects of reactive oxygen species.
- e. Applications of RFLP.
- 5. Explain briefly (Any three): (15)
- a. Western blotting.
- b. Antioxidant vitamins.
- c. Antibiotics inhibiting translation.
- d. Creatinine clearance better than urea clearance.

Section 2

- 6. Give an account of polymerase chain reaction with its different steps. Write five applications of the technique in medicine. (20)
- 7. Explain Why: (10)
- a. Deficiency of vitamin C causes bleeding gums.
- b. Mitochondrial DNA is more prone to mutations.
- c. High blood ammonia levels are toxic to body.
- d. Pyrimidine catabolic products are non-hazardous.
- e. Post transcriptional modifications are required. (A.557)
- 8. Explain briefly (Any four): (20)
- a. Restriction endonuclease.
- b. Monoclonal antibodies.
- c. Catalase.
- d. Basal metabolic rate.
- e. Replication bubble.



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