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## Q.P. CODE:503-A

## DR. NTR UNIVERSITY OF HEALTH SCIENCES:AP:VIJAYAWADA-520 008 M.B.B.S. DEGREE EXAMINATION – JANUARY, 2022 FIRST M.B.B.S. EXAMINATION PHYSIOLOGY PAPER-I

Time: 2 ½ Hours Max. Marks: 80

Note: Answer all questions

Illustrate your answers with suitable diagrams

 With the help of a suitable diagram, describe the 02-Hb dissociation curve and mention two factors shifting the curve to right. Enumerate four special features of pulmonary circulation. What is Haldane effect?

(6+2+4+3)

Define systolic and diastolic blood pressure and give their normal values. Explain the baroreceptor reflex in response to decreased blood pressure.
 SHORT ANSWER QUESTIONS: 5X4=20

- hypotension
- Facilitated diffusion
- Mechanism of humoral immunity
- Megaloblastic anemia
- Mechanism of HCI secretion from stomach WRITE BRIEFLY ON: 5X2=10
- Regulation of pancreatic secretion Mechanism and function of peristalsis and segmental
- contraction of intestine
- 10) A new born male presented with anemia, jaundice and generalized edema. His blood group was AB+ and the mother's blood group was A-. Three years back his sister was born and she was normal with blood group of A+.
  - a) What is your provisional diagnosis?
  - b) What is the cause of anaemia?
  - c) How will you treat this condition?





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- d) How could you have prevented these symptoms?
- Counter current multiplier Mechanism of glucose absorption in renal tubule
- 12) A 70 year old male presented with breathlessness on exertion. On examination, his pulse was 110/min and he had edema in the ankle and feet. The liver and spleen were found to be enlarged and jugular venous pulse was raised.
  - a) What is your probable diagnosis?
  - b) Explain the pathophysiology of edema in this condition
  - c) Mention one drug treat this condition and write its mechanism of action.

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