1. This exam covers chapters 8, 9, 10 and 11.

2. It will have 20 MCQ’s, 10 ‘match the term’ questions, 5 small answer questions and 10 completion questions.

3. Study recaps and study guides keeping your textbook figures open to prepare for the exam.

4. Sample small answer type questions are:
   a. Name 6 main parts of the brain.
   b. Give 3 important features of the cerebrum. Or write main functions of the cerebrum.
   c. Name 3 structures associated with the diencephalon and give 1 function for each.
   d. Name 3 structures associated with the brain stem and give 1 function for each.
   e. Write a brief note on cerebellum or spinal cord.
   f. Give 3 differences between sympathetic and parasympathetic divisions.
   g. Write a note on cranial nerves.
   h. How do eyes focus on near or far objects? (State condition of lens, suspensory ligament and ciliary body muscles)
   i. Define terms near-sightedness and far-sightedness and their correction by use of lens. (biconvex or biconcave)
   j. Name parts of the vestibule. Name the sensory structures present in them and write the function of these sensory structures.
   k. How many semi-circular canals are present in the inner ear? Name the sensory structure present in each and give the function of these sensory structures.
   l. Give 1 function of the auditory ossicles, organ of Corti and round window.
   m. Give location and 1 function of the thyroid gland.
   n. Describe sequence of 3 hormones by taking example of the thyroid gland or Adrenal gland.
   o. Explain regulation of Ca$^{2+}$ ions between plasma and bones by 2 calcitonin and PTH hormones.
   p. Explain regulation of glucose by insulin and glucagon hormones secreted by pancreas.
   q. Name a protein/peptide hormone; give location of its receptors in/on target cells; and how does it bring changes in target cells.
   r. Name a steroid hormone; give location of its receptors in/on target cells; and how does it bring changes in target cells.
   s. Name 2 hormones produced by the hypothalamus but released in the posterior pituitary body. How these hormones are carried to the posterior body?
   t. Give location of the adrenal glands. Name 1 hormone released by it for short term stress and 1 hormone released by it for long term stress.
   u. Name 3 types of formed elements and give 1 function of each of them.
   v. Give role of fibrin, thrombin and blood platelets in blood clotting.
   w. Name the antigens and antibodies present in blood groups A, AB and O.
   x. Give function of 5 types of WBC’s and RBC’s.