



Compiled by Saptarshi Mukhopadhyay

Select the correct answer

- Q1.** *WFS1 gene mutation is least commonly associated with which of the following manifestations?*
- Juvenile onset diabetes mellitus
 - Optic atrophy
 - Diabetes insipidus
 - Auditory nerve deafness
- Q2.** *Which of the following antibodies has the highest probability of being found in general population coincidentally?*
- Anti-GAD
 - Islet cell antibodies (ICAs)
 - Insulin auto antibodies
 - IA-2 antibody
- Q3.** *TECOS trial was done to assess the outcome benefits of which of the following molecules?*
- Linagliptin
 - Sitagliptin
 - Vildagliptin
 - Saxagliptin
- Q4.** *Which of the following molecules has the highest impact in reducing glycaemic excursions?*
- Insulin degludec
 - Insulin lispro
 - Liraglutide
 - Voglibose
- Q5.** *Which of the following molecules is an oral GLP1 analogue?*
- Semaglutide
 - Albiglutide
 - Taspoglutide
 - Dulaglutide
- Q6.** *All of the following statements regarding glucagon are false, except*
- Secreted from delta cells
 - Hyperglucagonemia is not a component of the ominous octet
 - Hyperglucagonemia is seen in both type 1 and type 2 diabetes
 - Somatostatin analogue is of no help in glucagonoma
- Q7.** *MODY 6 is associated with which gene?*
- Glucokinase
 - IPF 1
 - HNF 1 beta
 - Neuro D 1
- Q8.** *All are true about newer insulin pumps, except*
- T: SLIM is the first insulin pump with a touch screen
 - Jewel PUMP2 is based on a micro electromechanical systems integrated and ultra-precise disposable pump-chip technology
 - PaQ PUMP delivers both basal and bolus insulin
 - V-Go is a disposable pump that delivers a continuous, intravenous infusion of rapid-acting insulin
- Q9.** *All are true about saroglitazar, except*
- It is well absorbed through the gut
 - It is eliminated via hepatic route
 - Increase sapo lipoprotein CIII level
 - It does not produce oedema or weight gain
- Q10.** *All are true about intracellular signalling mechanisms through which insulin secretion is regulated, except*
- Closure of ATP sensitive potassium channels are done by glucose and leucine
 - Increased cytosolic calcium inhibits insulin secretion
 - Increased cyclic AMP potentiates insulin secretion
 - Calcium mobilisation from endoplasmic reticulum done by acetylcholine
- Q11.** *All are true about the molecular mechanism of insulin resistance, except*
- A dominant negative mutation in human gamma gene is associated with severe insulin resistance
 - Leptin promotes lipolysis and beta-oxidation of fatty acids, an action similar to insulin

- c. Reduction in adiponectin is associated with obesity and insulin resistance
- d. Resistin functions as a signal to decrease insulin stimulated glucose uptake

Q12. All are false regarding LADA, except

- a. Absence of family history of diabetes
- b. BMI >19
- c. Opening sugar is not high
- d. Adequate response to OHAs

Q13. All are diabetogenic drugs, except

- a. Epalrestat
- b. Pentamidine
- c. Thiazides
- d. Rosuvastatin

Q14. All are true regarding biomarkers of diabetic nephropathy, except

- a. Urinary IgG excretion predicts micro albuminuria
- b. Urinary type IV collagen significantly correlated with the amount of albuminuria

- c. Urine ceruloplasmin/creatinine ratio is higher in diabetics compared to non-diabetic
- d. Urine transferrin excretion is very specific for diabetic nephropathy

Q15. All are true regarding sexual dysfunction in diabetes, except

- a. In male, there is reduction of urinary testosterone level is seen
- b. Testicular biopsy shows altered Ley dig cell distribution
- c. Psychogenic impotent person will show alteration in nocturnal penile tumescence during REM sleep
- d. The loss of testicular pain sensitivity suggests neurogenic aetiology

“The mind is not a vessel to be filled, but a fire to be kindled.”

— Plutarch

(Answers on page 41)