THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[MBBS 0723] JULY 2023 Sub. Code : 6063

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2019-2020)

SECOND YEAR – (CBME)

PAPER III – PATHOLOGY – I

Q.P. Code: 526063

Time: 30 Minutes **Maximum : 20 Marks**

Answer All Questions

Choose one correct answer in the box provided in the Answer Script. No overwriting should be done. Choice should be given in Capital Letters.

III. Multiple Choice Questions: (20 x 1 = 20)

1. The chief protein component of intrinsic defect seen in Heriditary Spherocytosis is
   A) Ubiquitin B) Spectrin C) Tropomyosin D) Actin

2. The type mutations involved in beta thalessemia is
   A) Driver mutation B) Transgenic mutation
   C) Splicing mutation D) Reverse mutation

3. PIGA gene is acquired in PNH as
   A) X linked B) Autosomal Dominant
   C) Autosomal Recessive D) Y linked

4. Tay Sach's disease caused by inability to metabolise
   A) Glucokinase B) Fructokinase
   C) G_{M2}gangliosides D) G_{M3}gangliosides

5. Klinefelter's syndrome shows elevated levels of
   A) Testosterone B) FSH C) LH D) Estrogen

6. Turner's syndrome carry the risk of development of the following tumour
   A) Neuroblastoma B) Hepatoblastoma
   C) Gonadoblastoma D) Ganglioneuroma

7. The most effective Antigen presenting cells(APCs) are
   A) Dendritic cells B) Neutrophils C) Lymphocytes D) NK cells

8. The mediators produced by the Mast cells are responsible for
   A) Type I hypersensitivity B) Type II hypersensitivity
   C) Type III hypersensitivity D) Type IV hypersensitivity

9. Among the genes known to be associated with autoimmunity, the greatest contribution is from
   A) RB gene B) BRAF gene C) HLA gene D) IL23R gene

10. Smith antigen (Sm) is associated with
    A) Sjogren syndrome B) Rheumatoid arthritis
    C) Systemic sclerosis D) SLE

11. Acute cellullar rejection involves killing of cells by
    A) CD 2+ B) CD 3+ C) CD 8+ D) CD 10+

12. HHV 8 genome is found in the following cell of infected subjects
    A) T- cell B) B- cell C) Neutrophil D) Monocyte

13. Driver mutations are
    A) Loss of function B) Passenger mutations
    C) Initiating mutations D) Repeat mutations

14. The governor of the cell cycle is
    A) BRAF gene B) CDK4 gene C) Cyclin D gene D) RB gene

15. Warburg effect is
    A) Anerobic glycolysis B) Aerobic glycolysis
    C) Oxidative phosphorylation D) gluconeogenesis

16. Acute promyelocytic Leukemia is a reciprocal translocation between chromosome 15 and 17 causing a fusion gene
    A) BCR-ABL B) C-myc IGH C) PML-RARα D) FLI-EWSR

17. Polio virus infects human cells by binding to
    A) CD4 B) CD8 C) CD117 D) CD155

18. A low CD4 count before starting ART is an important risk factor for the development of
    A) Leprosy B) Tuberculosis C) Mucor D) Aspergillosis

19. The fat burning molecule is
    A) Ghrelin B) Insulin C) Adiponectin D) Leptin

20. The chromosomal anomalies associated with fetal hydrops is
    A) 45X B) 47XXY C) Trisomy 13 D) Trisomy 22.

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