

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 Hereditary Spherocytosis is
A) Ubiquitin B) Spectrin C) Tropomyosin D) Actin
2. The type mutations involved in beta thalassemia 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 Sachs's disease caused by inability to metabolise
A) Glucokinase B) Fructokinase
C) GM₂gangliosides D) GM₃gangliosides
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

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10. Smith antigen (Sm) is associated with
A) Sjogren syndrome B) Rheumatoid arthritis
C) Systemic sclerosis D) SLE
11. Acute cellular 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) Anaerobic 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-RAR α 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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