

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

[MBBS 0822]

AUGUST 2022

Sub. Code : 6063

M.B.B.S. DEGREE EXAMINATION

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

SECOND YEAR – SUPPLEMENTARY (CBME)

PAPER V – 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.

III. Multiple Choice Questions:

(20 x 1 = 20)

1. Damage to nuclear DNA triggers this pathway
 - a. WNT signalling
 - b. P53
 - c. AKT signalling
 - d. Ubiquitin
2. Atrophy is decreased protein synthesis due to
 - a. Ubiquitin proteasome pathway
 - b. WNT signalling
 - c. AKT pathway
 - d. P53
3. Neutrophil extracellular traps are mainly produced by
 - a. Chemical carcinogens
 - b. Infectious pathogens
 - c. Parasites
 - d. Radiation insult
4. The most important cytokine for synthesis of connective tissue proteins is
 - a. MMPs
 - b. VEGF
 - c. TGF- β
 - d. IL-1
5. Heparin induced Thrombocytopenia syndrome is due to administration of
 - a. Unfractionated Heparin
 - b. Fractionated Heparin
 - c. LMW Heparin
 - d. Thrombin
6. Which of these diseases listed is a X-Linked disorder
 - a. Tay sach's disease
 - b. Duchenne muscular dystrophy
 - c. Cystic fibrosis
 - d. Haemophilia A
7. Familial hypercholesterolemia is caused by mutations in the gene encoding the receptor for
 - a. HDL
 - b. VLDL
 - c. LDL
 - d. Chylomicrons
8. FISH uses one of the following probes for recognising sequences in a chromosomal region
 - a. RNA
 - b. DNA
 - c. CGH Probes
 - d. SNP Probes
9. Class II MHC present antigens derived from
 - a. Extracellular microbes
 - b. Intracellular microbes
 - c. Cytoplasmic proteins
 - d. Tumour antigens

10. In Acute antibody mediated Rejection antibodies bind to
- a. CD3+ cells
 - b. CD2+ cells
 - c. Vascular endothelium
 - d. Tissue epithelium
11. The direct cytopathic effect of the replicating HIV results in
- a. Loss of CD8+ cells
 - b. Loss of CD4+ cells
 - c. Raised CD4+ cells
 - d. Raised CD8+ cells
12. A sentinel lymph node is defined as
- a. First node in a regional lymphatic basin receiving lymph flow from the primary tumour
 - b. First node in another regional lymphatic basin receiving lymph flow from the primary tumour
 - c. Second node in a regional lymphatic basin receiving lymph flow from the primary tumour
 - d. Second node in another regional lymphatic basin receiving lymph flow from the primary tumour
13. The downstream pathway components of RAS in cancer cells include
- a. WNT
 - b. NOTCH
 - c. MAPK
 - d. INK
14. The UV portion of the solar spectrum which is carcinogenic is
- a. UVA
 - b. UVB
 - c. UVC
 - d. Ozone portion
15. EBV is associated with
- a. X-Linked agammaglobulinemia
 - b. Nasopharyngeal carcinoma
 - c. Leukemia
 - d. Melanomas
16. The novel covid-19 virus is
- a. SARS-CoV-1
 - b. SARS-CoV-2
 - c. SARS-CoV-3
 - d. SARS-CoV-4
17. Meyers-kouwenaar bodies are seen in
- a. Malaria
 - b. Filaria
 - c. Leishmania
 - d. Taenia
18. The photochemical reaction for the the endogenous production of 7-dehydrocholesterol requires solar UV Light in the range of
- a. 290-315nm
 - b. 320-360nm
 - c. 370-400nm
 - d. 410-425nm
19. The commonest age group of children affected by Teratoma is
- a. 0-4 yrs
 - b. 5-9 yrs
 - c. 10-14 yrs
 - d. 12-14yrs
20. The diagnosis of AML requires atleast
- a. 50% blasts in bone marrow
 - b. 40% blasts in bone marrow
 - c. 30% blasts in bone marrow
 - d. 20% blasts in bone marrow.
