

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, UTTAR PRADESH**MBBS DEGREE - IInd PROFESSIONAL - SUPPLEMENTARY EXAMINATION - APRIL 2025****PATHOLOGY - PAPER - I****SECTION A - Multiple Choice Questions (MCQs)**

PAPER CODE : 2521130004

SET : B

Note: Choose one correct answer in the OMR sheet provided. No overwriting should be done.

Time: 20 Minutes

(20 x 1 = 20 MARKS)

1. Liquefactive necrosis is seen in:

- a) Brain
- b) Lung
- c) Spleen
- d) Liver

2. The hallmark genetic abnormality in Chronic Myelogenous Leukemia (CML) is:

- a) Deletion of chromosome 13
- b) Point mutation in the p53 gene
- c) Philadelphia chromosome
- d) Trisomy 21

3. Nutmeg liver is a condition characterized by:

- a) Acute hepatitis
- b) Cirrhosis
- c) Hepatic venous congestion
- d) AL amyloid

4. The most common type of amyloid protein is:

- a) ATTR amyloid
- b) A β amyloid
- c) AA amyloid
- d) AL amyloid

5. The most commonly used stain for routine histological examination is:

- a) Masson's trichrome
- b) Gram stain
- c) Periodic acid-Schiff
- d) Hematoxylin and eosin

6. Anti apoptotic gene?

- a) BCL-XL
- b) Bim
- c) Bax
- d) ?

7. In an X-linked recessive inheritance pattern, who is most likely to be affected by the disease?
- Males only
 - Females only
 - Neither males nor females
 - Both males and females
8. Hemophilia B is a bleeding disorder caused by a deficiency in:
- Platelets
 - Vitamin K
 - Factor IX
 - Factor VIII
9. Which of the following is an example of an autoimmune disease?
- Rheumatoid arthritis
 - Malaria
 - Tuberculosis
 - HIV/AIDS
10. Acute lymphocytic leukemia (ALL) is most commonly diagnosed in which age group?
- Young adults
 - Older adults
 - Adolescents
 - Children
11. Which cells are most directly involved in rejecting a transplanted organ?
- White blood cells
 - Plasma cells
 - Platelets
 - Red blood cells
12. The standard storage temperature for packed red blood cells is:
- 22°C
 - ?°C
 - 4°C
 - 20°C
13. Retinoblastoma is primarily caused by:
- Environmental factors
 - Hormonal imbalance
 - Genetic mutation
 - Viral infection
14. Immune granulomas not seen in:
- Syphilis
 - Brucellosis
 - Tuberculosis
 - Silicosis

15. Type I hypersensitivity is mediated by:

- a) IgE antibodies
- b) T cells
- c) IgM antibodies
- d) IgG antibodies

16. Which of the following genes are most commonly associated with hereditary breast cancer?

- a) HER2
- b) BRCA1 and HER2
- c) TP53 and PTEN
- d) BRCA1 and BRCA2

17. Which of the following is risk factor for impaired bone fracture healing?

- a) Osteoporosis
- b) Diabetes mellitus
- c) Malnutrition
- d) All of the above

18. Fibroid necrosis is often associated with:

- a) Viral infections
- b) Bacterial infections
- c) Ischemic injury
- d) Immune complex-mediated diseases

19. The most common causes of Megaloblastic anemia are deficiencies in:

- a) Vitamin K and calcium
- b) Vitamin A and zinc
- c) Vitamin B12 and folate
- d) Iron and vitamin C

20. Down syndrome is caused by:

- a) An extra copy of chromosome 21
- b) A gene mutation
- c) A viral infection
- d) A bacterial infection
