

CENTRAL COUNCIL FOR RESEARCH IN SIDDHA
RESEARCH OFFICER (PATHOLOGY)

Date : 08.7.2017

70 x 1 = 70 marks

Duration : 90 Minutes

1. Metastatic calcification principally affects the interstitial tissues of the
a. gastric mucosa b. spleen c. liver d. small intestine
2. In which of the following are caspases seen?
a. hydropic degeneration b. collagen deposition
b. embryogenesis d. fatty degeneration
3. Lindsay tumour is
a. Papillary Carcinoma thyroid b. Papillary Carcinoma ovary
c. Papillary Renal cell Carcinoma d. Papillary adenocarcinoma - Lung
4. Therapeutic approach of transient induction of hypothermia to reduce ischaemic injury is done at the temperature of
a. 91° F b. 92° F c. 93° F d. 94° F
5. ----- crystals in urine sediment microscopy gives "Thorn Apple" appearance
a. Calcium carbonate b. Ammonium biurate
c. Calcium oxalate d. Triple phosphate
6. Major site for Cytokines biosynthesis are
c. melanocytes b. keratinocytes c. red blood cells d. dendrocytes
7. Crigler-Najjar syndrome is due to the absence of;
a. UDH-glucose dehydration b. UDP-glucuronyl transferase
c. alanine transferase d. aspartate transferase
8. Mallory-Denk bodies are seen in all except;
a. Wilson's disease b. alcoholic hepatitis
d. primary biliary cirrhosis d. congenital hepatic fibrosis
9. 17. In myocardial infarctions, microscopic picture of coagulation necrosis with neutrophilic infiltration is seen after
a. 4 - 12 hr b. 12-24 hr c. 1-3 days d. 3 - 7 days
10. Which of the following is an anti. apoptotic gene ?
a. c-myc b. p53 c. bcl-2 d. bax
11. Light microscope characteristic feature of apoptosis is
a. intact cell membrane b. eosinophilic cytoplasm
c. nuclear molding d. condensation of the nucleus
12. Vitamin K associated clotting factors are
a. 9,10 b. 1,5 c. 7,8 d. 1,8

13. Which of the following is not associated with thymoma?
 a. SIADH b. myasthenia gravis
 c. polymyositis d. hypogammaglobinemia
14. What type of hypersensitivity reaction is seen in myasthenia gravis ?
 a. type 1 hypersensitivity reaction
 b. type 2 hypersensitivity reaction
 c. type 3 hypersensitivity reaction
 d. type 4 hypersensitivity reaction
15. BRCA-1 gene lies on chromosome
 a. 17 b. 18 c. 20 d. 21
16. Basement membrane degeneration is mediated by
 a. metalloproteinases b. oxidases
 c. elastases d. hydroxylases
17. All are true of Real time polymerase chain reaction EXCEPT,
 a. can detect presence of particular nucleic acid sequences
 b. can quantify nucleic acid sequences of interest during exponential phase of DNA amplification
 c. used to monitor frequency of cancer cells bearing specific genetic lesions
 d. cannot detect somatic point mutations in oncogenes
18. Which of the following disorder is autosomal recessive
 a. huntington disease b. cystic fibrosis
 c. marfan syndrome d. tuberous sclerosis
19. The enzyme deficient in Gaucher disease is
 a. glucocerebrosidase b. sphincomyelinase
 c. arylsulfatase d. hexosaminidase
20. Which of the following is organ special autoimmune disease
 a. rheumatoid arthritis b. systemic sclerosis
 c. sjogren syndrome d. type 1 diabetes mellitus
21. Crew haircut appearance in X-ray is seen in
 a. iron deficiency anemia b. thalassemia
 c. sickle cell anemia d. megaloblastic anemia
22. The commonest form of Emphysema is
 a. centriacinar b. panacinar c. paraseptal d. irregular
23. Males with kartagener syndrome tend to be
 a. diabetic b. hypertensive c. infertile d. short statures
24. In chronic gastritis, *H. pylori* are typically found in the
 a. cardia b. fundus c. body d. antrum
25. What type of necrosis is seen in acute pancreatitis
 a. coagulative b. liquefactive c. caseous d. fat

26. Granulomatous inflammation is seen in
 a. malaria b. typhoid c. syphilis d. dengue
27. "Broken straw pattern" arrangement is characteristically seen in
 a. rhabdomyosarcoma b. liposarcoma
 c. myxoid chondrosarcoma d. osteosarcoma
28. The chemical that can be added to mounting media to inhibit fading of stains is
 a. butylated hydroxy fluorine b. butylated hydroxy ethylene
 c. butylated hydroxy chlorine d. butylated hydroxy Toluene
29. Purkinje cell tumour is
 a. oncocytic nephropathy b. oncocytic cardiomyopathy
 c. oncocytic neuropathy d. oncocytic gastropathy
30. Granuloma Gravidarum occurs in
 a. tubes b. gingiva c. cervix d. nodes
31. To study gene function, Knockdown technology uses
 a. si RNA b. DNA c. lnc RNA d. m RNA
32. Red infarct is seen in:
 a. ischemia of lung b. ischemia of heart
 c. ischemia of spleen d. ischemia of kidney
33. Blueberry muffin baby is a feature of:
 c. wilms tumor b. hepatoblastoma c. retinoblastoma d. neuroblastoma
34. Micro RNA is:
 a. coding RNA b. non coding RNA
 c. messenger RNA d. transcription RNA
35. The correct sequence of cell cycle is
 a. G0-G1-S-G2-M b. G0-G1-G2-S-M
 c. G0-M-G2-S-G1 d. G0-G1-S-M-G2
36. gamma gandy bodies contain hemosiderin and
 a. Na⁺ b. Ca⁺⁺ c. Mg⁺⁺ d. K⁺
37. Which is associated with defect in medullary carcinoma of thyroid ?
 a. RET protooncogene b. FAP gene c. Rb gene d. BRCA 1 gene
38. The earliest feature of correction of iron deficiency anemia is
 a. reticulocytosis b. increase in serum ferritin
 c. increase in RBC count d. increase in serum iron level immediately
39. Ultra – structurally, endothelial cells contain
 a. Weibel Palade bodies b. Langerhan's granules
 c. abundant glycogen d. Kallikrein
40. Vitamin K is responsible for the carboxylation of which amino acid in the clotting factors?
 a. aspartate b. glutamate c. proline d. lysine

41. White infarct is seen in:
a. lung b. intestine c. heart d. ovary
42. Congenital bilateral absence of vas deference is seen is
a. cystic fibrosis b.varicocele c. galactosemia d. bronchiectasis
43. Cells are most radiosensitive in
a. S – Phase b. M – Phase c. G1 – Phase d. G0 – Phase
44. HLA is located on
a. long arm of chromosome 6 b. long arm of chromosome 3
c. short arm of chromosome 6 d. short arm of chromosome 3
45. All are Free Radical scavenging enzymes except:
a. caspase b. superoxidase dismutase
c. glutathione peroxidise d. catalase
46. All are anti-apoptotic factors except:
a. BCL2 b. BAX c. MCL1 d.BCL-XL
47. Disease due to mitochondrial gene mutation:
a. Leber hereditary optic neuropathy b. Angelman syndrome
c. Prader-Willi syndrome d. Marfan syndrome
48. In nephritic syndrome the amount of proteinuria / day is more than
a. 0.5 gm b. 1.5 gm c. 2.5 gm d. 3.5 gm
49. Clear cell (sugar) tumour of Lung is positive for
a. calretinin b. myogenin – D c. HMB- 45 d. calcitonin
50. Michaelis – Guttman body is seen in
a. leukoplakia b. malakoplakia c. erythroplakia d.dysplasia
51. Peripheral smear of patients with abetalipoproteinemia shows
a. stomatocytes b. echinocytes c. acanthocytes d. spherocytes
52. Hepcidin is produced by all except
a. liver b. kidney c. adipose tissue d. spleen
53. Mediastinal location of Neurogenic tumours is
a.. anterior mediastinum b. posterior mediastinum
c. superior mediastinum d. middle mediastinum
54. Markers of Natural Killer cells:
a. CD 19, CD 20 b. CD 16, CD 56
c. CD 4, CD 28 d. CD 80, CD 86
55. Gatekeeper of Colonic Neoplasia is:
a. RAS b. APC c. RB d.NF1
56. All are malignant tumors except
a. chloroma b. fibromatosis c. Klatskin tumor d. liposarcoma

57. HbH is formed due to which of the following
 a. deletion of 4 alpha chains b. deletion of 3 alpha chains
 c. deletion of 2 alpha chains d. deletion of 1 alpha chain
58. The virus associated with the etiogenesis of atherosclerosis is
 a. CMV b. HIV c. EBV d. Coxsackie B
59. The most common mutation seen in congenital nephrotic syndrome is
 a. nephrin b. podocin c. a4 actinin d. megalin
60. Pituitary adenomas are regarded as macroadenomas when their size is
 a. > 1cm b. > 1.5cm c. > 2cm d. > 2.5cm
61. Following parameter in iron deficiency anemia is true,
 a. increased serum iron b. decreased TIBC
 c. increased % saturation d. decreased serum ferritin
62. Osmotic Fragility Test is used in the following condition
 a. sickle cell anemia b. hereditary spherocytosis
 c. thalassemia d. G6PD Deficiency
63. What type of hypersensitivity reaction is seen in myasthenia gravis?
 a. type 1 hypersensitivity reaction b. type 2 hypersensitivity reaction
 c. type 3 hypersensitivity reaction d. type 4 hypersensitivity reaction
64. Chromosomal translocation characteristic in acute promyelocytic leukemia is
 a. t (15:17) b. t (22:9) c. t (21:17) d. t (8:21)
65. Glycoprotein IIb-IIIa complex is deficient in
 a. Bernard Soulier syndrome b. Glanzmann disease
 c. Von Willebrand disease d. gray platelet syndrome
66. The following is not a feature of Alzheimer's disease
 a. neurofibrillary tangles b. senile (neuritic) plaques
 c. amyloid angiopathy d. Lewy bodies
67. In Cushing syndrome the tumor is associated with
 a. increased level of epinephrine b. decreased level of epinephrine
 c. elevated levels of cortisol d. increased level of nor epinephrine
68. Which of the following is the source of hepatic stem cells?
 a. limbus cell b. ito cell c. oval cell d. paneth cell
69. Which one of the following stains is specific for amyloid?
 a. periodic acid schiff (PAS) b. alizarin red
 c. congo red d. von-kossa
70. Hypothyroidism is seen in
 a. Hashimoto's thyroiditis b. graves disease
 c. toxic multi nodular goitre d. struma ovarii

KEY

1.	A
2.	C
3.	A
4.	B
5.	B
6.	B
7.	B
8.	D
9.	C
10.	C
11.	D
12.	A
13.	A
14.	B
15.	A
16.	A
17.	D
18.	B
19.	A
20.	D
21.	B
22.	A
23.	C
24.	D
25.	D
26.	C
27.	A
28.	D
29.	B
30.	B
31.	A
32.	A
33.	D
34.	B
35.	A

36.	B
37.	A
38.	A
39.	A
40.	B
41.	C
42.	A
43.	B
44.	C
45.	A
46.	B
47.	A
48.	D
49.	C
50.	B
51.	C
52.	D
53.	B
54.	B
55.	B
56.	B
57.	B
58.	A
59.	A
60.	A
61.	D
62.	B
63.	B
64.	A
65.	B
66.	D
67.	C
68.	C
69.	C
70.	A