



GOVERNMENT OF JAMMU AND KASHMIR
OFFICE OF THE PRINCIPAL.

GOVERNMENT MEDICAL COLLEGE, HANDWARA.
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Subject: Final Answer Key to the Written MCQ Based Test for Selection of Junior Residents in Govt medical College Handwara.

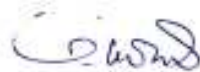
The Government Medical College Handwara conducted the Written MCQ test for the selection Junior Residents in Govt. Medical College Handwara on 10/06/2026, as notified via Notification No: **GMC/Hand/2026/Acad/553; Dated: 05-06-2026**

The provisional answer key for the aforementioned examination was notified on vide notice No. **GMC/Hand/2026/Acad/568; Dated:11-06-2026** for information and seeking of objections/ Representations from the candidates.

Whereas in response to aforesaid notice various representations were received in the stipulated time.

Whereas the objections/Representations were examined and the revised/Final answer key for the said examination was finalized and same has been mentioned as **Annexure I** to this notification.

NOTE: No further claim in respect to the final key shall be entertained by Govt. Medical College, Handwara through any medium


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No. GMC/Hand/2026/Acad/ 573

Dated: 13 -06-2026

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1. I/C Website for uploading on official website.

1. A 45-year-old female post-renal transplant patient on immunosuppressive therapy presents with fever, dry cough, and progressive dyspnea. A chest X-ray shows bilateral diffuse interstitial infiltrates. A bronchoalveolar lavage (BAL) is performed, and silver staining reveals crushed ping-pong ball-shaped cysts. What is the causative organism?
 - a. *Aspergillus fumigatus*
 - b. *Cryptococcus neoformans*
 - c. *Pneumocystis jirovecii*
 - d. *Histoplasma capsulatum*

2. A 7-year-old boy is brought to the pediatrics outpatient department with acute onset of fever, sore throat, and difficulty swallowing. On examination, a thick, grayish-white pseudomembrane is observed over the tonsils and pharynx, which bleeds on attempting to dislodge. The toxin responsible for this condition mechanism of action involves:
 - a. Activation of adenylate cyclase
 - b. Inhibition of protein synthesis via EF-2 inactivation
 - c. Cleavage of SNARE proteins
 - d. Blocking the release of inhibitory neurotransmitters

3. A 28-year-old female nurse sustains a needle-stick injury while drawing blood from a patient known to be a chronic hepatitis B carrier. The nurse's baseline serology shows she is negative for HBsAg but has a protective titer of anti-HBs antibodies (>100 mIU/mL) from a previous vaccination. What is the most appropriate next step in management?
 - a. Administer Hepatitis B Immunoglobulin (HBIG) immediately
 - b. Give a booster dose of the Hepatitis B vaccine
 - c. No further action is required regarding Hepatitis B prophylaxis
 - d. Start Lamivudine preemptive therapy

4. An 18-year-old college student living in a dormitory is brought to the emergency department with a high fever, severe headache, photophobia, and altered mental status. On examination, neck stiffness and a positive Brudzinski sign are noted. Petechial rashes are observed on his lower extremities. A lumbar puncture is performed, and CSF analysis shows elevated proteins, low glucose, and Gram-negative intracellular diplococci. Which medium is specific for isolating this organism?
 - a) Thayer-Martin medium
 - b) Lowenstein-Jensen medium
 - c) TCBS agar
 - d) MacConkey agar

5. A 50-year-old chronic alcoholic presents with a 3-day history of high fever, chills, and a productive cough with thick, gelatinous, brick-red ("currant jelly") sputum. A chest X-ray reveals right upper lobe lobar consolidation with a bulging fissure. Gram stain shows Gram-negative, encapsulated bacilli. Which of the following features is characteristic of this organism on MacConkey agar?
 - a. Large, mucoid, lactose-fermenting colonies
 - b. Small, translucent, non-lactose fermenting colonies
 - c. Green metallic sheen colonies
 - d. Swarming growth pattern

6. A 29-year-old commercial sex worker presents with a foul-smelling, greenish-yellow, frothy vaginal discharge associated with vulvar pruritus and dysuria. On speculum examination, the clinician notes a diffuse macular inflammation of the cervix ("strawberry cervix"). A wet mount preparation of the discharge is most likely to reveal:
 - a) Clue cells covered with coccobacilli
 - b) Budding yeast cells with pseudohyphae
 - c) Flagellated pear-shaped trophozoites showing jerky motility
 - d) Intracellular Gram-negative diplococci

7. A 4-year-old girl is brought to the pediatric clinic with a bark-like cough, inspiratory stridor, and hoarseness. Her symptoms began 2 days ago with a runny nose and low-grade fever. A neck X-ray reveals subglottic narrowing known as the "steeple sign." What is the most likely viral agent responsible for this condition?
- Respiratory Syncytial Virus (RSV)
 - Parainfluenza virus type 1
 - Adenovirus
 - Influenza A virus
8. A 9-month-old infant is admitted to the pediatric ward during winter with severe watery diarrhea, vomiting, and dehydration. No ova or parasites are found in the stool. Dehydration is corrected via IV fluids. What is the structural configuration of the viral agent most likely responsible for this presentation?
- Enveloped, single-stranded negative-sense RNA virus
 - Non-enveloped, double-stranded segmented RNA virus
 - Enveloped, double-stranded DNA virus
 - Non-enveloped, single-stranded positive-sense RNA virus
9. A 40-year-old male patient who is positive for HIV (CD4 = 85 cells/Micro Litre) presents with a severe headache, low-grade fever, and neck stiffness. A lumbar puncture is performed. India ink preparation of the CSF reveals a clear halo surrounding budding yeast cells. Which of the following is the most reliable rapid diagnostic serological test for this pathogen?
- Cryptococcal antigen (CrAg) Lateral Flow Assay
 - VDRL test
 - PCR for Mycobacterial DNA
 - Galactomannan assay
10. A 6-year-old girl is brought to the clinic with an itchy scalp. Physical examination reveals a patchy area of alopecia on the scalp with scaly skin and broken hair shafts close to the surface ("black dot" tinea capitis). A KOH mount of the hair scrapings reveals fungal arthroconidia inside the hair shaft (endothrix). Which genus is most commonly implicated in this presentation?
- Microsporum
 - Trichophyton
 - Epidermophyton
 - Malassezia
11. Metastasis to Thyroid Gland most commonly comes from
- Lungs
 - Kidneys
 - Tongue
 - GIT
12. A 43 years old lady presents with a Right Breast lump measuring 5*3 cm. 1.5 cm nodule is palpable in the supraclavicular fossa. Which TNM stage she belongs to:
- T1N1M1
 - T1N0M1
 - T2N3M0
 - T2N3Mx
13. A patient suffered bullet injury to left colon and presented to ER after 15 hours. What would be the most appropriate Surgical Management?
- Primary closure
 - Proximal colostomy and distal end mucus fistula
 - Observation
 - Resection Anastomosis
14. After Laparoscopic cholecystectomy, if HPE reveals incidental Adenocarcinoma invading up-to Lamina Propria, Further management is:
- Only Follow-up if cystic duct margin is clear.
 - Radical Cholecystectomy
 - Extended Cholecystectomy
 - Radiotherapy
15. A 65-year old lady was admitted to the hospital with severe abdominal pain, jaundice and fever. Imaging reveals Choledocholithiasis. What is the next step in her management?
- Observe for 72 hours for spontaneous resolution
 - Start Antibiotics and do Biliary Decompression within 24-48 hours
 - Perform Laparoscopic cholecystectomy and CBD exploration
 - Administer Antibiotics, Analgesics and Plan a follow up after 2 weeks.

16. A Femoral Hernia containing Vermiform Appendix is known as
- Amyand's hernia
 - Littre's hernia
 - De Garengeot hernia
 - Richters hernia
17. The most commonly used Colloid Formula for burn resuscitation is
- Parkland formula
 - Brooke formula
 - Evans formula
 - Muir and Barclay formula
18. A patient sustains burns involving the entire right upper limb. According to Wallace Rule of Nines, the percentage TBSA burnt is
- 4.5%
 - 9%
 - 18%
 - 27%
19. 22-year-old woman presents with mobile, painless, firm breast lump measuring 2 cm. What is the most likely diagnosis?
- Carcinoma breast
 - Fibroadenoma
 - Fat necrosis
 - Breast abscess
20. The Single lymph node in Calot's triangle is called
- Lymph node of Charcot
 - Lymph node of Cloquet
 - Lymph node of Lund
 - Lymph node of Virchow
21. To distinguish undescended testes and retractile testes, the following are true except
- Retractile testes can be brought down to scrotum
 - Undescended inguinal testis is palpable
 - Scrotum is well developed in undescended testes
 - Associated inguinal hernia is seen in undescended testes
22. A 28-year-old man falls from a motorcycle and sustains a fracture at the surgical neck of the humerus. On examination, he has weakness of shoulder abduction from 15° to 90° and loss of sensation over the regimental badge area. The injured nerve is:
- Radial nerve
 - Musculocutaneous nerve
 - Axillary nerve
 - Ulnar nerve
23. A radiologist identifies a lesion affecting the posterior cord of the brachial plexus. Which nerves are most likely affected?
- Median and ulnar
 - Axillary and radial
 - Musculocutaneous and median
 - Long thoracic and dorsal scapular
24. The most commonly injured meniscus of the knee is:
- Lateral meniscus
 - Medial meniscus
 - Both equally
 - Menisocofemoral ligament
25. A "dinner-fork deformity" is characteristically seen in which of the following injuries?
- Smith's fracture
 - Colles' fracture
 - Barton's fracture
 - Galeazzi fracture
26. A "soap-bubble appearance" on an X-ray of the epiphyseal region of a long bone is classic for:-
- Osteosarcoma
 - Ewing's sarcoma
 - Giant Cell Tumor (GCT)
 - All of the above
27. A patient presents with foot drop following a knee dislocation. Injury to which nerve is the most likely cause?
- Tibial nerve
 - Common peroneal nerve
 - Obturator nerve
 - Femoral nerve
28. What is the gold standard diagnostic modality for confirming a suspected avascular necrosis (AVN) of the femoral head in its earliest stages (Ficat Stage 0 or 1)?
- Plain Radiography (Anteroposterior and Frog-leg views)
 - Computed Tomography (CT) scan
 - Magnetic Resonance Imaging (MRI)
 - Technetium-99m Bone Scintigraphy

29. Which of the following benign bone tumor may occasionally metastasize to the lungs?
- Chondromyxoid fibroma
 - Giant cell tumor grade II
 - Osteochondroma
 - Fibrous dysplasia
30. Which layer of the cornea does not regenerate after injury?
- Epithelium
 - Bowman's layer
 - Stroma
 - Descemet's membrane
31. Kayser-Fleischer rings in Wilson's disease represent copper deposition in which specific corneal layer?
- Bowman's layer
 - Anterior stroma
 - Descemet's membrane
 - Endothelium
32. Which type of cataract surgery complication is characterized by an abrupt loss of red reflex and sudden intraocular pressure rise intraoperatively?
- Retinal detachment
 - Suprachoroidal hemorrhage
 - Posterior capsular rupture
 - Toxic anterior segment syndrome (TASS)
33. Which condition is characterized by the classic triad of encephalopathy, hearing loss, and branch retinal artery occlusions (BRAOs)?
- Susac syndrome
 - Eales disease
 - Cogan syndrome
 - Whipple's disease
34. A lesion affecting the Right optic tract results in which type of visual field defect?
- Right homonymous hemianopia
 - Left homonymous hemianopia
 - Bitemporal hemianopia
 - D) Left superior quadrantanopia
35. Dalrymple's sign in Thyroid Eye Disease refers to which clinical presentation?
- Lid lag on downward gaze
 - Retraction of the upper eyelids in primary gaze
 - Infrequent or poor blinking
 - Resistance to retropulsion of the globe
36. At 41 week, primigravida presents with features of obstructed labor. Management includes all except:
- IV fluids
 - Oxytocin
 - Antibodies
 - Lower (uterine) segment cesarean section (LSCS)
37. A 28 yr old primigravida with 32 weeks of pregnancy suddenly complains of headache oliguria & blurred vision. Her BP is 180/110 mm of Hg and urine albumin is +3. The line of further management is:
- Wait and watch
 - Labetelol and LSCS
 - MgSO₄, Labetelol and induction of labor
 - MgSO₄, Labetelol and deliver at 37 weeks
38. A 35 yr old female comes with obstructed labor and is febrile and dehydrated with intra uterine fetal demise (IUID) & cephalic presentation. Which is the best way to manage?
- Craniotomy
 - Decapitation
 - Cesarean section
 - Forceps extraction
39. A 28 yr old female gravida 2, para 1, 33 weeks of gestation comes with USG report showing estimate of fetal weight (EFW) < 3rd centile and cerebroplacental ratio (CPR) < 5th centile, AFI 5cm, NST normal. Next course of action should be?
- Immediate cesarean delivery
 - Steroid coverage and delivery by induction of labor
 - Steroid coverage, weekly monitoring and delivery at 37 weeks
 - Delivery at 40 weeks
40. The most common urinary problem occurring in the postpartum period is:
- Detrusor instability
 - Urinary tract infection
 - Stress incontinence
 - Vesicovaginal fistula

41. WHO recommendations for prevention and treatment of maternal peripartum infections include:
- Routine vaginal cleansing with chlorhexidine during labor
 - Intrapartum antibiotic administration to women with group B Streptococcus colonization
 - Routine antibiotic prophylaxis for women with episiotomy
 - Antibiotic prophylaxis after cord clamping during cesarean section
42. A patient who is a known case of GDM delivers at term. It is important to check her blood sugar levels immediately postpartum since there may be a decrease in the insulin requirements of diabetic patients. This can be partly explained by which of the following?
- Decreased human placental lactogen
 - Decreased α -FP
 - Increased insulin secretion
 - Decrease in plasma estrogen
43. Most common nerve injured during Normal vaginal delivery is:
- Obturator nerve
 - Lateral femoral cutaneous nerve
 - Ilioinguinal nerve
 - Iliohypogastric nerve
44. A 26 yr old pregnant woman presents at 29 weeks gestation with preterm rupture of membranes and is found to have a Bishop score of 8. How might the Bishop score influence the management plan for this patient and what are the potential implications of this finding?
- Bishop score suggests unfavorable cervix, consider expectant management.
 - Bishop score indicates favorable cervix for induction, consider labor induction.
 - Bishop score is not relevant in case of PROM; continue with expectant management.
 - Bishop score indicates high risk of chorioamnionitis; expedite delivery
45. Half life of IV Oxytocin is:
- 3 minutes
 - 30 minutes
 - 3 hours
 - 45-60 minutes
46. Which type of tubal pregnancy ruptures at a later stage:
- Ampullary
 - Interstitial
 - Fimbrial
 - Isthmic
47. COPE (Calendar of Premenstrual Experience) has:
- 10 physical and 2 behavioral symptoms
 - 12 physical and 10 behavioral symptoms
 - 4 physical and 12 behavioral symptoms
 - 10 physical and 12 behavioral symptoms
48. Synovial fluids of normal joints are usually devoid of collagen. Patients with rheumatoid diseases have various types of collagen in their synovial fluid, depending on the tissue being damaged. If a patient has type II collagen in the synovial joint, which of the following tissues is being eroded?
- Vascular endothelium
 - Compact bone
 - Vascular smooth muscle
 - Articular cartilage
49. A 21-year-old patient has a lesion of the upper trunk of the brachial plexus (Erb Duchenne paralysis). Which of the following is the most likely diagnosis?
- Paralysis of the rhomboid major
 - Inability to elevate the arm above the horizontal
 - Arm tending to lie in medial rotation
 - Loss of sensation on the medial side of the arm
50. A man is unable to hold typing paper between his index and middle fingers. Which of the following nerves was likely injured?
- Radial nerve
 - Median nerve
 - Ulnar nerve
 - Musculocutaneous nerve
51. A patient presents with sensory loss on adjacent sides of the great and second toes and impaired dorsiflexion of the foot. These signs probably indicate damage to which of the following nerves?
- Superficial peroneal
 - Lateral plantar
 - Deep peroneal
 - Sural

52. The woman experiences weakness when abducting and medially rotating the thigh after this accident. Which of the following muscles is most likely damaged?
- Piriformis
 - Obturator internus
 - Quadratus femoris
 - Gluteus minimus
53. A thoracentesis is performed to aspirate an abnormal accumulation of fluid in a 37-year-old patient with pleural effusion. A needle should be inserted at the midaxillary line between which of the following two ribs so as to avoid puncturing the lung?
- Ribs 1 and 3
 - Ribs 3 and 5
 - Ribs 5 and 7
 - Ribs 7 and 9
54. A 49-year-old woman has a large mass on the pelvic brim. Which of the following structures is most likely compressed by this mass when crossing the pelvic brim?
- Deep dorsal vein of the penis
 - Uterine tube
 - Ovarian ligament
 - Lumbosacral trunk
55. A 50-year-old hypertensive woman complains of numbness and weakness in her left leg and foot. Occlusion of which of the following vessels may account for this complaint?
- Anterior choroidal artery
 - Anterior cerebral artery
 - Interior carotid artery
 - Middle cerebral artery
56. A patient presented with acute abdominal pain. On clinical suspicion patient underwent cholecystectomy. On histopathological examination the finding is normal. The gallbladder epithelium will be
- Squamous
 - Simple columnar
 - Simple columnar with brush border
 - Cuboidal with stereocilia
57. The ability to recognize an unseen familiar object placed in the hand depends on the integrity of which pathway?
- Spinospinal tract
 - Dorsal column
 - Dorsal spinocerebellar tract
 - Spino-olivary tract
58. A patient with severe hyperkalemia develops a sine-wave ECG pattern. This finding is usually seen at serum potassium above:
- 5.5 mM
 - 6.5 mM
 - 7.0 mM
 - 8.0 mM
59. Polysomnography reveals severe obstructive sleep apnea. Which apnea-hypopnea index defines severe disease?
- >5/hr
 - >10/hr
 - >20/hr
 - >30/hr
60. Cor pulmonale in COPD is most strongly associated with chronic hypoxemia of:
- $PaO_2 < 75$
 - $PaO_2 < 65$
 - $PaO_2 < 55$
 - $PaO_2 < 45$
61. Reperfusion therapy in ACS is least beneficial when:
- ST elevation precordial leads
 - ST elevation limb leads
 - No ST elevation
 - Posterior MI
62. Free water deficit calculation most closely uses:
- $A. 0.3 \times BW$
 - $B. 0.4 \times BW$
 - $C. 0.5 \times BW$
 - $D. 0.6 \times BW$
63. Average annual stroke risk in atrial fibrillation is approximately:
- A. 1%
 - B. 5%
 - C. 10%
 - D. 15%

64. Which measure is contraindicated in myxedema coma?
- External warming
 - Hydrocortisone
 - Antibiotics
 - Hypotonic fluids
65. Primary sclerosing cholangitis is most strongly associated with:
- Cholangiocarcinoma
 - Pancreatic cancer
 - Gallbladder cancer
 - Ampullary cancer
66. B12 maybe indirectly estimated by :
- Methylmalonic acid in urine
 - RBC transketolase activity
 - Glutathione-reductase activity
 - FIGLU in urine
67. The mucopolysaccharidosis characterised by normal IQ and intellect:
- MPS I (Hurler's disease)
 - MPS II (Hunter's disease)
 - MPS III (San Filippo)
 - MPS IV (Morquio)
68. A patient presents with anemia. Lab finding show: \uparrow MCV and \uparrow homocysteine, Normal methylmalonic acid. Most likely deficiency?
- Vitamin B12
 - Folate
 - Vitamin B6
 - Iron.
69. Cherry red spot is most commonly observed in which of the following conditions:
- Krabbe's disease
 - Gaucher's disease
 - Fabry's disease
 - Tay Sach's disease
70. The glycosaminoglycan commonly found in the cornea, contributing to its transparency is:
- Chondroitin sulphate
 - Keratan sulphate
 - Hyaluronic acid
 - Dermatan sulphate
71. The technique used to separate DNA fragments based on size is:
- Gel electrophoresis
 - Centrifugation
 - Mass spectrometry
 - Chromatography
72. Which of the following glycogen storage disorders present with exercise intolerance:
- Type Ia (Von Gierke's disease)
 - Type II (Pompe's disease)
 - Type III (Cori's disease)
 - Type IV (Andersen's disease)
73. A 31-year-old pregnant female came for her ANC check-up. She is 15 weeks pregnant. On routine check-up, her blood glucose level came to be 220 mg/100 mL. She is not a known case of diabetes. What is this called?
- Diabetes Mellitus
 - Gestational Diabetes Mellitus (GDM)
 - Impaired Fasting Glucose
 - Physiological Glycosuria of Pregnancy
74. An 27-year-old woman with no significant medical history was brought to the trauma center being hit by a car while walking on the road. On arrival, she was pale and significantly distressed. Her hands were cold on touch, BP was 90/54 mm Hg and pulse was 110 bpm. She was in which type of shock?
- Hypovolemic Shock
 - Neurogenic Shock
 - Cardiogenic Shock
 - Septic Shock
75. An unknown body was brought to the FMT department by the police to find the cause of death. On examination his hands were partially covered with wrinkles, swollen and were clutching strands of water plants. The fluid recovered from his body was hypertonic in nature. Where was he drowned? What are the types of drowning?
- Immersion Syndrome
 - Freshwater Drowning
 - Post-mortem Submersion (Disposal of a corpse)
 - Saltwater Drowning
76. After a damaging stimulus, one feels an initial, sharp, pricking, highly localized pain which is mediated by
- alpha fibers
 - beta fibers
 - delta fibers
 - gamma fibers

77. Fick's principle is used to calculate
- Pulse pressure
 - Cardiac output
 - Oxygen consumption
 - Cardiac axis
78. Duration of cardiac cycle at heart rate of 70 beats per minute is:
- 0.4 sec
 - 0.6sec
 - 0.8 sec
 - 1 sec
79. A patient is brought into the ER after an RTA with loss of sensations, reflexes and paralysis of both the lower limbs. He also has severe hypotension and loss of bladder control. What is the probable duration of the stage?
- 1-3 days
 - 1-3 hours
 - 1-3 weeks
 - 1-3 months
80. A 43-year-old female presents with an irregular breast mass. Histopathology shows a proliferation of small, uniform, round cells growing in loose dyscohesive clusters and single files ("Indian filing"). The tumor cells are completely negative for E-cadherin on immunohistochemistry. Question: What is the most definitive diagnosis?
- Invasive Ductal Carcinoma
 - Invasive Lobular Carcinoma
 - Medullary Carcinoma
 - Intraductal Papilloma
81. A 27-year-old African American female undergoes ear piercing. Six months later, she develops a large, nodular, tumor-like skin mass at the site of the piercing. The lesion is excised. Histopathology reveals an abundance of thick, broad, exaggerated, glassy, hyalinized collagen bundles (type I and III collagen) that project well beyond the boundaries of the original wound site. Question: What is the correct diagnosis for this lesion?
- Hypertrophic scar
 - Keloid
 - Fibroma
 - Dermatofibrosarcoma protuberans
82. A 50-year-old chronic alcoholic undergoes an autopsy. Gross examination of the liver reveals a markedly enlarged, yellow, greasy organ. Histopathology shows hepatocytes filled with large, clear cytoplasmic vacuoles that push the nuclei to the periphery. A special stain performed on frozen tissue confirms the vacuoles contain neutral lipids. Question: What is the diagnosis, and which histochemical stain was used to confirm the vacuolar contents?
- Glycogen storage disease; Periodic Acid-Schiff (PAS)
 - Amyloidosis; Congo Red
 - Steatosis (Fatty liver); Oil Red O
 - Gaucher Disease; Gaucher-specific Prussian Blue
83. An autopsy of a 28-year-old male who died of overwhelming Neisseria meningitidis sepsis reveals bilateral, catastrophic hemorrhagic necrosis of the adrenal glands. Question: What is the name of this specific clinicopathological entity?
- Conn Syndrome
 - Waterhouse-Friderichsen Syndrome
 - Nelson Syndrome
 - Schmidt Syndrome
84. A 45-year-old male with HIV presents with purple skin lesions and lymphadenopathy. Biopsy of a node shows a proliferation of spindle cells with slit-like vascular spaces containing extravasated erythrocytes. Which infectious agent is the driver?
- CMV
 - Bartonella henselae
 - EBV
 - HHV-8
85. A 60-year-old male with a history of chronic sun exposure presents with a firm red nodule on his face. Microscopy shows a small round blue cell tumor with high mitotic activity. IHC shows CK20 positivity in a perinuclear dot-like pattern. Which virus is strongly associated with this tumor?
- Human Herpesvirus 8 (HHV-8)
 - Merkel Cell Polyomavirus (MCPyV)
 - Human Papillomavirus (HPV)
 - Epstein-Barr Virus (EBV)

86. A 32-year-old woman with edema, hypertension, and proteinuria (3.5 g/day) undergoes kidney biopsy. Light microscopy: diffuse thickening of glomerular basement membranes with "spikes" on silver stain. Immunofluorescence: granular IgG and C3 along capillary walls. Electron microscopy: subepithelial electron-dense deposits. MCQ: What is the diagnosis?
- Membranous nephropathy
 - Minimal change disease
 - IgA nephropathy
 - Membranoproliferative GN
87. A 35-year-old woman presents with itchy, scaly plaques on the extensor surfaces of elbows and knees for 6 months. Skin biopsy from a plaque shows regular acanthosis with elongated rete ridges, parakeratosis, Munro microabscesses, and dilated dermal capillaries. No granulomas or vasculitis. What is the most likely diagnosis?
- Psoriasis vulgaris
 - Lichen planus
 - Atopic dermatitis
 - Pityriasis rosea
88. A 6-cm adrenal mass is removed. Histology shows diffuse architecture, atypical mitoses, necrosis, and venous invasion. Most useful scoring system for malignancy assessment:
- Nottingham score
 - Gleason score
 - Weiss criteria
 - Fuhrman grade
89. A 7-year-old child has severe anemia requiring repeated transfusions. Peripheral smear shows microcytic hypochromic RBCs with target cells. Hb electrophoresis demonstrates markedly elevated HbF. Diagnosis:
- Iron deficiency anemia
 - β -thalassemia major
 - Sickle cell anemia
 - Hereditary spherocytosis
90. A 25-year-old woman has a deep-seated thigh mass. Histology shows a biphasic pattern of spindle cells and epithelial structures. Cytogenetics demonstrates t(X;18). Diagnosis:
- Fibrosarcoma
 - Synovial sarcoma
 - Leiomyosarcoma
 - MPNST
91. A 58-year-old man with longstanding rheumatoid arthritis develops nephrotic syndrome. Renal biopsy shows amorphous eosinophilic deposits in glomeruli that exhibit apple-green birefringence on Congo red staining. The deposited protein is most likely:
- AL (immunoglobulin light chain)
 - A β protein
 - AA protein
 - Transthyretin
92. A 30-year-old man is found hanging from a tree. The ligature mark is oblique, noncontinuous and situated above the thyroid cartilage. The most likely cause of death:
- Throttling
 - Ligature strangulation
 - Hanging
 - Smothering
93. Red flag sign in child development if not attained?
- Vocalization at 2 months
 - Walking at 12 months
 - Single word at 12 months
 - Social smile at 6 months
94. A newborn baby at 1 minute of life is limp with gasping respiration with heart rate of 40 who was born completely pale. The baby had a grimace response when the nasal catheter was passed. What is the Apgar score at 1 minute of life for this neonate?
- 1
 - 2
 - 3
 - 4
95. A child having delayed separation of umbilical cord with leukocytosis with Down syndrome and recurrent infections. Diagnosis is
- Leucocyte adhesion deficiency
 - Neonatal sepsis
 - Histiocytosis X
 - All of above

96. A 3-year-old female child suffered from viral illness for which he took aspirin. Three days later the child presented to ER with altered sensorium and vomiting. What is the underlying defect?
- Defective beta oxidation of fatty acids
 - Glucose 6 Phosphatase deficiency
 - Pyruvate dehydrogenase deficiency
 - Urea cycle defect
97. A child with pyoderma becomes toxic and presents with respiratory distress. His chest radiograph shows patchy areas of consolidation and multiple bilateral thin-walled air containing cysts. The most likely etiological agent in this case is
- Mycobacterium tuberculosis
 - Staphylococcus aureus
 - Mycobacterium avium intracellulare
 - Pneumocystis carinii
98. A 3-month-old infant presents with bilateral medullary nephrocalcinosis. All of the following can cause medullary nephrocalcinosis except
- Hyperoxaluria
 - Bartter syndrome
 - Prolonged use of furosemide
 - ARPKD
99. A 1-month-old baby present with frequent vomiting and failure to thrive. There are features of moderate dehydration. Blood sodium is 122 mEq/L and potassium is 6.1 mEq/L. The most likely diagnosis is
- Gitelman syndrome
 - Bartter syndrome
 - 21 -hydroxylase deficiency
 - 11-beta hydroxylase deficiency
100. A child presents with massive hepatomegaly and hypoglycemia. There is no improvement in blood glucose on administration of glucagon. The probable diagnosis is
- Von Gierke disease
 - McArdle disease
 - Cori's disease
 - Forbe disease



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(Annexure I) Final Answer Key:

Q1. C	Q28. C	Q55. B	Q82. C
Q2. B	Q29. B	Q56. C	Q83. B
Q3. C	Q30. B	Q57. B	Q84. D
Q4. A	Q31. C	Q58. D	Q85. B
Q5. A	Q32. B	Q59. D	Q86. A
Q6. C	Q33. A	Q60. C	Q87. A
Q7. B	Q34. B	Q61. C	Q88. C
Q8. B	Q35. B	Q62. D	Q89. B
Q9. A	Q36. B	Q63. B	Q90. B
Q10. B	Q37. C	Q64. D	Q91. C
Q11. B	Q38. C	Q65. A	Q92. C
Q12. C	Q39. C	Q66. A	Q93. D
Q13. B	Q40. C	Q67. D	Q94. C
Q14. A	Q41. B	Q68. B	Q95. A
Q15. B	Q42. A	Q69. D	Q96. A
Q16. C	Q43. B	Q70. B	Q97. B
Q17. D	Q44. B	Q71. A	Q98. D
Q18. B	Q45. A	Q72. C	Q99. C
Q19. B	Q46. B	Q73. A	Q100. A
Q20. C	Q47. D	Q74. A	
Q21. C	Q48. D	Q75. D	
Q22. C	Q49. C	Q76. C	
Q23. B	Q50. C	Q77. B	
Q24. B	Q51. C	Q78. C	
Q25. B	Q52. D	Q79. C	
Q26. C	Q53. D	Q80. B	
Q27. B	Q54. D	Q81. B	