

SEAL

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Series :

A

Question Booklet No.

102578

GM/A/07/2024 EXAM.

2024

PAPER—II

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Time : 2 Hours

Maximum Marks : 200

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GM/A/07/2024 EXAM. 2024/2-A

SEAL

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1. Which of the following is the most prevalent species of *Plasmodium* causing malaria in the North-East region of India?

- [A] *Plasmodium vivax*
- [B] *Plasmodium malariae*
- [C] *Plasmodium ovale*
- [D] *Plasmodium falciparum*

2. The North-East region of India has a higher prevalence of HIV due to which of the following factors?

- [A] High rates of intravenous drug use
- [B] Unprotected heterosexual transmission
- [C] High number of blood transfusions
- [D] High levels of mother-to-child transmission

3. Which State in the North-East region of India reports the highest incidence of Japanese Encephalitis?

- [A] Assam
- [B] Nagaland
- [C] Manipur
- [D] Tripura



4. Which population group in the North-East region of India is most vulnerable to tuberculosis?

- [A] Tribal populations
- [B] Urban dwellers
- [C] Children under 5 years
- [D] Pregnant women

5. Which substance is most commonly abused in the North-East region of India, contributing to public health challenges?

- [A] Heroin
- [B] Alcohol
- [C] Cannabis
- [D] Opium

6. In the North-East region of India, harm reduction strategies for HIV include all of the following, **except**

- [A] needle exchange programs
- [B] methadone maintenance therapy
- [C] mass screening campaigns
- [D] safe injection sites

7. Which strategy is vital for controlling Japanese Encephalitis in North-East India?

- [A] Annual vaccination campaigns
- [B] Surveillance of migratory bird populations
- [C] Use of insect repellents
- [D] Implementation of water sanitation programs

8. The incubation period for *Plasmodium falciparum* malaria is generally

- [A] 7–10 days
- [B] 14–21 days
- [C] 21–30 days
- [D] 30–40 days

9. The window period for HIV infection refers to the time between
- [A] exposure to HIV and the appearance of symptoms
 - [B] exposure to HIV and the production of detectable antibodies
 - [C] onset of symptoms and death
 - [D] diagnosis and treatment
10. Employees' State Insurance (ESI) scheme is an outcome of
- [A] Bohr Committee
 - [B] Adarkar Committee
 - [C] Srivastava Committee
 - [D] None of the above
11. What is serial interval?
- [A] Time interval between invasion of infection and appearance of first sign and symptom
 - [B] Time between onset of primary case and secondary case
 - [C] Interval of time between receipt of infection by a host and maximum infectivity
 - [D] Time in which infectious agent is transferred from one host to another
12. If a researcher wants to check for incidence of deafness caused by noise effects in traffic police workers after one year, the study conducted will be
- [A] case-control study
 - [B] cross-sectional study
 - [C] ecological study
 - [D] cohort study

13. Which is the best method to reduce the selection error for a clinical trial conducted among two independent groups?
- [A] Matching
 - [B] Blinding
 - [C] Stratification
 - [D] Randomization
14. As the risk for lung cancer is increasing in the North-East region of India, the Government has constituted a board to formulate the Cigarettes and Other Tobacco Products Act (COTPA). This comes under which level of prevention?
- [A] Primordial
 - [B] Primary
 - [C] Secondary
 - [D] Tertiary
15. A researcher plans to conduct a nutrition survey in North-East India. Which of the following is the most suited to find the variations in dietary plan based on religion?
- [A] Simple sampling
 - [B] Snowball sampling
 - [C] Cluster sampling
 - [D] Stratified sampling
16. A woman is diagnosed to be positive for HIV in her first trimester. What is the appropriate management?
- [A] Start ART immediately and continue till six weeks after delivery
 - [B] Start ART immediately and continue life-long
 - [C] Start ART after delivery and continue life-long
 - [D] Start ART after delivery and continue till six weeks after delivery



17. The primary treatment for Japanese Encephalitis is

- [A] antiviral drugs
- [B] supportive care
- [C] antibiotics
- [D] immunoglobulin therapy

18. BCG vaccination provides protection against

- [A] all forms of tuberculosis
- [B] pulmonary tuberculosis only
- [C] severe forms of tuberculosis in children
- [D] drug-resistant tuberculosis

19. The incidence of a disease is defined as

- [A] the number of new cases occurring in a defined population during a specified time period
- [B] the total number of cases present in a population at a specific time
- [C] the number of deaths due to the disease
- [D] the proportion of the population affected

20. Which of the following is a measure of central tendency in a dataset?

- [A] Incidence
- [B] Mean
- [C] Prevalence
- [D] Relative risk

21. The basic reproductive number (R_0) in epidemiology refers to

- [A] the number of secondary cases generated from one primary case in a fully susceptible population
- [B] the average number of cases in an epidemic
- [C] the number of cases needed to establish an outbreak
- [D] the average number of deaths in a pandemic

22. Which of the following is **not** an impact of deforestation on public health?

- [A] Increased incidence of vector-borne diseases
- [B] Decreased respiratory problems
- [C] Loss of medicinal plants
- [D] Increased soil erosion

23. Which of the following is an example of confounding in an epidemiological study?

- [A] A study on smoking and lung cancer that does not account for age
- [B] Misclassification of exposure status in a case-control study
- [C] Loss to follow-up in a cohort study
- [D] Non-random allocation of participants in a clinical trial

24. Which type of epidemiological study is best for establishing causality?

- [A] Case-control study
- [B] Cohort study
- [C] Cross-sectional study
- [D] Ecological study



25. An ecological study finds a high correlation between national rates of alcohol consumption and liver cirrhosis mortality. Assuming this relationship applies to all individuals within the population would be an example of

- [A] confounding bias
- [B] selection bias
- [C] ecological fallacy
- [D] information bias

26. Which of the following is an example of a cross-sectional study?

- [A] A study that follows a group of smokers and non-smokers over time to compare lung cancer incidence
- [B] A survey conducted in a population to assess the prevalence of hypertension at a single point in time
- [C] A case-control study investigating the risk factors for breast cancer
- [D] A clinical trial testing a new vaccine

27. As per the National Health Mission (NHM) norms in tribal, hilly and difficult to access areas, one Community Health Center (CHC) should be available for every

- [A] 50000 population
- [B] 80000 population
- [C] 100000 population
- [D] 120000 population



28. In India, Ministry concerned with Integrated Child Development Scheme is

- [A] Ministry of Labour and Human Rights
- [B] Ministry of Health and Family Welfare
- [C] Ministry of Women and Child Development
- [D] Drug Controller General of India

29. International Red Cross is based in

- [A] Geneva
- [B] New York
- [C] New Delhi
- [D] Rome

30. Odds Ratio is calculated in

- [A] case-control study
- [B] cohort study
- [C] ecological study
- [D] randomized controlled trial

31. The spread of infectious disease can be explained by

- [A] Epidemiological Wheel Theory
- [B] Epidemiological Triad
- [C] Web of Causation
- [D] Maslow's Hierarchy of Needs

32. Which of the following human diseases is caused by bacteria?

- [A] Hepatitis A
- [B] Typhoid
- [C] Measles
- [D] Polio

33. Medical Council of India has been renamed as

- [A] National Medical Commission
- [B] National Medical Council
- [C] Ayushman Bharat
- [D] Bharat Nirrog Samiti

34. National Vector Borne Disease Control Programme includes all, **except**

- [A] Malaria
- [B] Filaria
- [C] Japanese Encephalitis
- [D] Yellow Fever



35. Population of geriatric (>60 years) in the State of Arunachal Pradesh is

- [A] 5.2%
- [B] 10.3%
- [C] 15%
- [D] 8.8%

36. The full form of AEFI is

- [A] Adverse Effects Following Immunization
- [B] Adverse Events Following Immunization
- [C] Alternate Effects of Immunization
- [D] Advisory After Effective Immunization

37. As per World Health Organization, assistive products include

- [A] medication reminder
- [B] spectacles
- [C] crutch
- [D] All of the above

38. Birth Control Failure rate is measured as

- [A] Chandler Index
- [B] Pearl Index
- [C] Human Development Index
- [D] DMF Index

39. The infectious disease spreading rapidly with low fatality will have

- [A] high incidence and high prevalence
- [B] high incidence and low prevalence
- [C] low incidence and low prevalence
- [D] low incidence and high prevalence

40. The Pradhan Mantri Jan Arogya Yojana offers _____ to the people below poverty line.

- [A] health cover of ₹ 5 lakhs/family per year
- [B] disability cover of ₹ 5 lakhs/family per year
- [C] assured employment to youth less than 35 years of age
- [D] accidental cover to population

41. Which of the following is **correct** about forceps delivery?

- [A] Outlet forceps is applied when head is at or above 0 station
- [B] Can be applied with cervix not fully dilated
- [C] Risk of cephalohematoma is more than vacuum
- [D] OASI (Obstetric Anal Sphincter Injury) is more common than vacuum

42. HELLP syndrome is a complication of

- [A] transverse lie
- [B] pre-term labour
- [C] premature rupture of membranes
- [D] pre-eclampsia

43. Which of the following is **not true** about eclampsia?

- [A] 20–38% cases do not demonstrate hypertension or proteinuria before the seizure episode
- [B] Injection Levetiracetam is the drug of choice
- [C] Zuspan and Pritchard regimes are both effective in management
- [D] Fetal bradycardia following seizures usually recovers within few minutes

44. Magnesium sulfate is **not** indicated in which of the following obstetric situations?

- [A] Severe pre-eclampsia
- [B] Eclampsia
- [C] Fetal neuroprotection
- [D] GDM

45. Which of the following is **not true** about complete mole?

- [A] Histologically, it shows florid cistern formation, trophoblastic proliferation and absence of fetal parts
- [B] It has 46, XX chromosomes with both X chromosomes from paternal origin
- [C] There is no risk of progression to gestational trophoblastic neoplasia
- [D] Follow up with β HCG is required after suction and evacuation

46. Use of which of the following drugs is contraindicated in pregnancy?

- [A] Digoxin
- [B] Nifedipine
- [C] Amoxicillin
- [D] Enalapril



47. Methylergometrine is contraindicated for which of the following conditions?

- [A] Severe atonic uterine bleeding following delivery
- [B] Induction of labour
- [C] Uterine bleeding following abortion
- [D] Following expulsion of hydatidiform mole

48. Positive Fern test in cervical mucous smear is due to

- [A] the presence of NaCl under progesterone effect
- [B] the presence of NaCl under estrogen effect
- [C] LH/FSH
- [D] the mucus secretion by glands

49. Sonosalpingography is done
- [A] for measuring basal body temperature
 - [B] to detect pregnancy
 - [C] for testing tubal patency
 - [D] for determining an ovulatory cycle
50. Bacterial vaginosis is characterized by
- [A] fungal infection
 - [B] fishy vaginal odor
 - [C] vaginal pH < 4.5
 - [D] whiff test negative
51. Strawberry cervix is seen in
- [A] HPV infection
 - [B] trichomoniasis
 - [C] candidiasis
 - [D] cervical cancer
52. All of the following are **true** about uterine fibroid, **except**
- [A] estrogen and progesterone promote its development
 - [B] symptoms can include heavy menstrual bleeding, pain and heaviness
 - [C] red degeneration is seen during pregnancy
 - [D] sarcomatous change cannot occur
53. All of the following agents are used for emergency contraception, **except**
- [A] Cu-T
 - [B] Levonorgestrel
 - [C] high dose combined with oral contraceptives
 - [D] Misoprostol



54. Tubal sterilization is commonly performed at which site of fallopian tube?
- [A] Ampulla
 - [B] Infundibulum
 - [C] Isthmus
 - [D] Cornua
55. Postpartum IUCD can be inserted up to
- [A] 12 hours
 - [B] 24 hours
 - [C] 48 hours
 - [D] 72 hours
56. Which of the following is **not correct** about Cervical Intraepithelial Neoplasia (CIN)?
- [A] Mitotic activity, cellular immaturity, nuclear atypia in lower third of epithelium is CIN 1
 - [B] It typically originates inside the transformation zone
 - [C] Persistent high risk HPV infection is the main risk factor
 - [D] Coinfection with HIV does not impact its progression
57. All of the following are **correct** regarding tumour markers, **except**
- [A] CA-125-epithelial ovarian
 - [B] Inhibin B-trophoblastic tumour
 - [C] Alpha fetoprotein-yolk sac tumour
 - [D] LDH-dysgerminoma

58. Which of the following is **false** about Krukenberg tumour ovary?

- [A] Characterized by mucin-filled signet ring cells
- [B] Constitutes 30% to 40% of metastatic cancers to the ovaries
- [C] Primary tumour is frequently located in the stomach
- [D] They are usually unilateral solid masses

59. Regarding polycystic ovary syndrome in adolescents, which one is **true**?

- [A] Anti-Mullerian Hormone (AMH) levels assist in diagnosis
- [B] Glycemic status should be assessed like in adults
- [C] LH/FSH ratio is essential to make the diagnosis
- [D] Ultrasound should not be used to make the diagnosis

60. All of the following are **true** about cervical cancer, **except**

- [A] bimodal distribution of cases
- [B] it is mainly caused by HSV infection
- [C] vaccine decreases the incidence
- [D] it is an AIDS defining illness in HIV patients

61. Regarding HPV vaccine in India, which of the following is **false**?

- [A] Cervavac is indigenous vaccine of India
- [B] It is a bivalent vaccine against HPV 16 and 18
- [C] Approved between 9 and 26 years of age
- [D] It prevents anal cancer, genital warts along with cervical cancer

62. Presence of decubitus ulcer in prolapse indicates

- [A] infection
- [B] malignancy
- [C] circulatory disturbance
- [D] mechanical trauma



63. All of the following are signs of shoulder dystocia, **except**

- [A] turtle-neck sign
- [B] failure of restitution of fetal head
- [C] failure of shoulder to descend
- [D] difficulty with delivery of trunk

64. According to Anemia Mukh Bharat Program, 2018, strategies to decrease anemia in pregnancy includes all, **except**

- [A] daily, 1 iron and folic acid tablet starting from the fourth month of pregnancy
- [B] minimum 180 days during pregnancy and minimum 180 days postpartum
- [C] each tablet containing 100 mg elemental iron + 500 mcg folic acid
- [D] periodic deworming

65. Complications of Cesarean section includes all, **except**

- [A] puerperal infection
- [B] wound hematoma
- [C] venous thromboembolism
- [D] arterial thrombosis

66. Regarding screening for gestational diabetes mellitus, which of the following is **correct**?

- [A] Screening is done at 24 weeks only
- [B] OGTT according to DIPSI is done in fasting state
- [C] OGTT is done with 100 gm glucose
- [D] According to DIPSI criteria, 2 hours blood glucose >140 mg/dl is abnormal

67. All are **correct** regarding antenatal corticosteroid, **except**

- [A] it should be given between 24 to 34 + 6 weeks
- [B] it should be given when delivery is anticipated within 7 days
- [C] double the dose of steroids is required in twin pregnancy
- [D] diabetic women require additional dose of insulin while receiving steroids

68. The characteristics of caput succedaneum include all, **except**

- [A] crosses midline
- [B] results in neonatal jaundice
- [C] it disappear spontaneously within 4-6 days
- [D] it's a diffuse edematous swelling of the soft tissues of the scalp

69. Which is the best modality for determining gestational age when LMP is **not** reliable?

- [A] First trimester ultrasound
- [B] 26-28 weeks ultrasound
- [C] Date of Urine Pregnancy Test (UPT)
- [D] Uterine size by first trimester P/V exam

70. All of the following are **correct** about postmenopausal bleeding, **except**

- [A] endometrial atrophy accounts for 60% to 80% of cause
- [B] endometrial polyps account for 2% to 10% of cause
- [C] endometrial thickness >8 mm needs evaluation
- [D] hysteroscopy and endometrial biopsy are recommended

71. Which of the following is **not** a physiological change in pregnancy?

- [A] Increase in intravascular volume
- [B] Increase in cardiac output
- [C] Increase in stroke volume
- [D] Increase in peripheral vascular resistance

72. What is additional calories intake in pregnancy?

- [A] Less than 200 kcal
- [B] 200 kcal
- [C] 300 kcal
- [D] No change

73. All of the following increase in pregnancy, **except**

- [A] vital capacity
- [B] functional residual capacity
- [C] residual volume
- [D] tidal volume



74. Components of antenatal care is all, **except**

- [A] advise regarding antenatal visits
- [B] to make a plan for mode and place of delivery
- [C] family planning advise
- [D] screen for rare maternal diseases

75. Presence of 'show' and formation of 'bag of waters' are characteristics of

- [A] true labour
- [B] false labour
- [C] prelabour
- [D] PROM

76. Which is **not correct** about postpartum hemorrhage?

- [A] Blood loss \geq 1000 ml during Cesarean section
- [B] Blood loss \geq 500 ml during vaginal delivery
- [C] Blood loss accompanied by signs or symptoms of hypovolemia occurring within 24 hours after birth uterine atony accounts for 70% cases
- [D] Shock index cannot alert about severity of PPH

77. The opening of vagina, urethra and ducts of vestibular glands open into

- [A] labia majora
- [B] uterus
- [C] vestibule
- [D] None of the above

78. Which is associated with the least chance of ectopic pregnancy?

- [A] Hysteroscopic tubal occlusion
- [B] Copper IUCD
- [C] Combined OC pills
- [D] Tubal ligation

79. Medical management is likely to fail in ectopic pregnancy, if

- [A] the gestational sac is <3 cm
- [B] the duration of pregnancy is <5 weeks
- [C] the cardiac activity is present
- [D] the beta HCG <5000 mIU/ml

80. Which of the following is the most appropriate management in ruptured tubal pregnancy in hypovolemic shock?

- [A] Quick resuscitation followed by laparotomy and excision of the actively bleeding affected fallopian tube
- [B] Blood transfusion and resuscitation only after the clamps have been put to control the bleeding
- [C] Immediate autotransfusion of only fresh blood harvested from the peritoneal cavity
- [D] Excision of the affected tube and the ipsilateral ovary (salpingo-oophorectomy)



81. Fractional Inactivated Polio Vaccine is administered at all of the following ages in National Immunization Schedule, **except**

- [A] 6 weeks
- [B] 10 weeks
- [C] 14 weeks
- [D] 9 months

82. Which of the following activities is covered under the Rashtriya Bal Suraksha Karyakram?

- [A] Management of acute respiratory tract infection
- [B] Correction of dehydration in diarrhea
- [C] Screening for developmental delay
- [D] Catch-up immunization

83. Which of the following is a serious adverse event after immunization?

- [A] Local injection site pain
- [B] Permanent disability
- [C] Fever
- [D] Irritability



84. Deficiency of which of the following vitamins causes classical triad of diarrhea, dermatitis and dementia?

- [A] B12
- [B] Riboflavin
- [C] Niacin
- [D] Pyridoxine

85. Which of the following measures can be adopted for population screening of iodine deficiency?

- [A] Home salt iodine estimation
- [B] Soil iodine estimation
- [C] Urinary iodine excretion
- [D] Thyroid function test

86. Which of the following components accurately describes the composition of human breast milk?

- [A] Proteins 3.3 g/dL
- [B] Fats 4.2 g/dL
- [C] Carbohydrate 5 g/dL
- [D] Energy 100 kcal/dL

87. Which of the following conditions presents with metabolic alkalosis in children?

- [A] Renal tubular acidosis
- [B] Cerebral salt wasting
- [C] Bartter syndrome
- [D] Methanol poisoning

88. Which of the following drugs can be used to treat acute kidney injury and hyperkalemia?

- [A] Insulin and glucose
- [B] 3 percent saline
- [C] Chlorothiazide
- [D] Dopamine

89. Which of the following veins can be used for central venous access?

- [A] Internal jugular vein
- [B] Anterior cubital vein
- [C] Popliteal vein
- [D] Saphenous vein

90. The ratio of chest compressions to rescue breaths in resuscitation of children (>12 mo) is

- [A] 3 : 1
- [B] 10 : 2
- [C] 15 : 2
- [D] 30 : 2

91. Which of the following is a priority (not emergency) sign for triaging a sick child as per F-IMNCI?

- [A] Convulsion
- [B] Severe dehydration
- [C] Shock
- [D] Jaundice

92. Which of the following is a sign of severe dengue?

- [A] Clinical fluid accumulation
- [B] Serum aminotransferase (ALT) > 1000 U/L
- [C] Mucosal bleeds
- [D] Increase in hematocrit with decrease in platelets

93. A newborn who presents with cataract, sensorineural hearing loss and thrombocytopenia should be investigated for which congenital infection?

- [A] Syphilis
- [B] Cytomegalovirus
- [C] Mumps
- [D] Human Papillomavirus

94. Acyclovir therapy is not indicated in uncomplicated varicella infection in childhood as

- [A] it is costly
- [B] it does not prevent meningoencephalitis
- [C] the drug has marginal benefit
- [D] it is associated with side effects

95. Which of the following is an X-linked disease?

- [A] Friedreich's ataxia
- [B] Fabry's disease
- [C] Osteogenesis imperfecta
- [D] Cystic fibrosis

96. The appropriate approach to a neonate presenting with vaginal bleeding on day 4 of life is

- [A] administration of vitamin K
- [B] investigation for bleeding disorder
- [C] no specific therapy
- [D] administration of 10 ml/kg of fresh frozen plasma over 4 hours

97. The most common malignant neoplasm of infancy is

- [A] malignant teratoma
- [B] neuroblastoma
- [C] Wilms' tumour
- [D] hepatoblastoma

98. The important fatty acid present in breast milk which is important for growth is

- [A] docosahexaenoic acid
- [B] palmitic acid
- [C] linoleic acid
- [D] linolenic acid

99. Delayed Cord Clamping is recommended after

- [A] 30 seconds
- [B] 1 minute
- [C] 4 minutes
- [D] 5 minutes

100. Choose the **correct** response for growth interpretation of Indian children.

- [A] WHO growth charts are recommended for the use in children from 1-18 years of age
- [B] WHO growth charts are recommended for the use in children from 5-18 years of age
- [C] IAP growth charts are recommended for the use in children from 1-5 years of age
- [D] IAP growth charts are recommended for the use in children from 5-18 years of age

SPACE FOR ROUGH WORK



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