

30/8/22

प्रश्न पुस्तिका संख्या /
Question Booklet No.

1001529

पुस्तिका में पृष्ठों की संख्या-32
No. of Pages in Booklet -32
पुस्तिका में प्रश्नों की संख्या-180
No. of Questions in Booklet -180

BSAP-22

Paper Code : 12

SUBJECT : P & SM

(Broad Speciality)

समय: 3.00 घण्टे

अधिकतम अंक: 180

Time: 3.00 Hours

Maximum Marks: 180

प्रश्न-पत्र पुस्तिका के पेपर सील/ पॉलिथिन बैग को खोलने पर परीक्षार्थी यह सुनिश्चित कर लें कि प्रश्न पुस्तिका संख्या तथा ओ.एम.आर. उत्तर-पत्रक पर अंकित बारकोड समान हैं। इसमें कोई भिन्नता हो तो परीक्षार्थी वीक्षक से दूसरा प्रश्न-पत्र प्राप्त कर लें। ऐसा सुनिश्चित करने की जिम्मेदारी अभ्यर्थी की होगी।

On opening the paper seal/ polythene bag of the Question Booklet the candidate should ensure that Question Booklet Number and Barcode of OMR Answer Sheet must be same. If there is any difference, candidate must obtain another Question Booklet from Invigilator. Candidate himself shall be responsible for ensuring this.

परीक्षार्थियों के लिए निर्देश

1. सभी प्रश्नों के उत्तर दीजिए।
2. सभी प्रश्नों के अंक समान हैं।
3. प्रत्येक प्रश्न का केवल एक ही उत्तर दीजिए।
4. एक से अधिक उत्तर देने की दशा में प्रश्न के उत्तर को गलत माना जाएगा।
5. प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं, जिन्हें क्रमशः 1, 2, 3, 4 अंकित किया गया है। अभ्यर्थी को सही उत्तर निर्दिष्ट करते हुए उनमें से केवल एक गोले अथवा बबल को उत्तर-पत्रक पर नीले बॉल प्वाइंट पेन से गहरा करना है।
6. **OMR** उत्तर-पत्रक इस परीक्षा पुस्तिका के अन्दर रखा है। जब आपको परीक्षा पुस्तिका खोलने को कहा जाए, तो उत्तर-पत्रक निकाल कर ध्यान से केवल नीले बॉल प्वाइंट पेन से विवरण भरें।
7. प्रत्येक गलत उत्तर के लिए प्रश्न अंक का 1/3 भाग काटा जायेगा। गलत उत्तर से तात्पर्य अशुद्ध उत्तर अथवा किसी भी प्रश्न के एक से अधिक उत्तर से है। किसी भी प्रश्न से संबंधित गोले या बबल को खाली छोड़ना गलत उत्तर नहीं माना जायेगा।
8. मोबाइल फोन अथवा इलेक्ट्रॉनिक यंत्र का परीक्षा हॉल में प्रयोग पूर्णतया वर्जित है। यदि किसी अभ्यर्थी के पास ऐसी कोई वर्जित सामग्री मिलती है, तो उसके विरुद्ध आयोग द्वारा नियमानुसार कार्यवाही की जायेगी।
9. कृपया अपना रोल नम्बर ओ.एम.आर. पत्रक पर सावधानी पूर्वक सही भरें। गलत अथवा अपूर्ण रोल नम्बर भरने पर 5 अंक कुल प्राप्तांकों में से काटे जा सकते हैं।
10. यदि किसी प्रश्न में किसी प्रकार की कोई मुद्रण या तथ्यात्मक प्रकार की त्रुटि हो, तो प्रश्न के हिन्दी तथा अंग्रेजी रूपान्तरों में से अंग्रेजी रूपान्तर मान्य होगा।

चेतावनी : अगर कोई अभ्यर्थी नकल करते पकड़ा जाता है या उसके पास से कोई अनधिकृत सामग्री पाई जाती है, तो उस अभ्यर्थी के विरुद्ध पुलिस में प्राथमिकी दर्ज कराते हुए विविध नियमों-प्रावधानों के तहत कार्यवाही की जाएगी। साथ ही विभाग ऐसे अभ्यर्थी को भविष्य में होने वाली विभाग की समस्त परीक्षाओं से विवर्जित कर सकता है।

INSTRUCTIONS FOR CANDIDATES

1. Answer all questions.
2. All questions carry equal marks.
3. Only one answer is to be given for each question.
4. If more than one answers are marked, it would be treated as wrong answer.
5. Each question has four alternative responses marked serially as 1, 2, 3, 4. You have to darken only one circle or bubble indicating the correct answer on the Answer Sheet using **BLUE BALL POINT PEN**.
6. The **OMR** Answer Sheet is inside this Test Booklet. When you are directed to open the Test Booklet, take out the Answer Sheet and fill in the particulars carefully with **blue ball point pen** only.
7. **1/3 part of the mark(s) of each question will be deducted for each wrong answer.** A wrong answer means an incorrect answer or more than one answers for any question. Leaving all the relevant circles or bubbles of any question blank will not be considered as wrong answer.
8. Mobile Phone or any other electronic gadget in the examination hall is strictly prohibited. A candidate found with any of such objectionable material with him/her will be strictly dealt as per rules.
9. Please correctly fill your Roll Number in O.M.R. Sheet. **5 Marks** can be deducted for filling wrong or incomplete Roll Number.
10. If there is any sort of ambiguity/mistake either of printing or factual nature, then out of Hindi and English Version of the question, the English Version will be treated as standard.

Warning : If a candidate is found copying or if any unauthorized material is found in his/her possession, F.I.R. would be lodged against him/her in the Police Station and he/she would liable to be prosecuted. Department may also debar him/her permanently from all future examinations.

इस परीक्षा पुस्तिका को तब तक न खोलें जब तक कहा न जाए।

Do not open this Test Booklet until you are asked to do so.

1. Type B PHC is having delivery load of -
 - (1) Less than 20 deliveries per month
 - (2) More than 20 deliveries per month
 - (3) Zero delivery per month
 - (4) None of the above
2. A screening test is used the same way in two similar populations, but the proportions of the false positive results among those who test positive in population A is lower than that among those who test positive in population B. What is the likely explanation of this finding?
 - (1) The specificity of the test is lower in population A
 - (2) The prevalence of disease is lower in population A
 - (3) The prevalence of disease is higher in population A
 - (4) The specificity of the test is higher in population A
3. Which of the following is not direct mode of disease transmission?
 - (1) Droplet infection
 - (2) Contact with contaminated soil
 - (3) Droplet nuclei
 - (4) Transplacental transmission
4. Functions listed under concurrent list is responsibility of -
 - (1) Central Government
 - (2) State Government
 - (3) Both (1) & (2)
 - (4) None of the above
5. One of the target, to eliminate malaria from india, and to be achieved by the year 2030 is-
 - (1) To sustain status of zero indigenous cases and deaths due to malaria for 3 years
 - (2) To reduce API to less then one case / 1000 population
 - (3) To establish fully functional malaria surveillance
 - (4) To interrupt transmission of malaria
6. In 14th century quarantine was introduced in Europe to protect against importation of which condition?
 - (1) Plague
 - (2) Cholera
 - (3) Smallpox
 - (4) Yellow fever

7. Which of the following is a false statement about cancer-cervix?
- (1) May be caused by human papilloma virus
 - (2) More common in upper socio-economic class
 - (3) Carcinoma in-situ stage lasts longer
 - (4) Closely associated with poor genital hygiene
8. Single dose mass therapy to everyone in community is given in disease -
- (1) Leprosy
 - (2) Filariasis
 - (3) Malaria
 - (4) None of the above
9. Ideally evaluation of a screening test should be done by:
- (1) Randomized controlled trial
 - (2) Uncontrolled trial
 - (3) Case control studies
 - (4) Cohort studies
10. Which of the following is not true?
- (1) Cereal proteins are deficient in lysine
 - (2) Parboiling of rice preserve thiamine content of rice
 - (3) Cereals contain 20-25% protein
 - (4) Rice is richer in lysine compared to other cereals
11. The North Karelia project was a risk factor intervention trial for -
- (1) Coronary heart disease
 - (2) Stroke
 - (3) Lung cancer
 - (4) Hypertension
12. Demographic gap attains its maximum limit in:
- (1) Early stage I
 - (2) Late stage II
 - (3) Late stage III
 - (4) Early stage IV

13. Arrange the following phases of Disaster Cycle in a logical sequence:
- (1) Disaster impact-Mitigation-Rehabilitation-Response
 - (2) Disaster impact-Response-Rehabilitation-Mitigation
 - (3) Rehabilitation-Response-Disaster impact-Mitigation
 - (4) Response-Disaster impact-Rehabilitation-Mitigation
14. Chandler's index is used in public health problem of -
- (1) Roundworm
 - (2) Hookworm
 - (3) Guinea worm
 - (4) Whipworm
15. National policy on older person was formed in the year-
- (1) 1999
 - (2) 1998
 - (3) 1995
 - (4) 1994
16. Which of the following statements are correct about the population served by a Subcenter and a Primary health centre?
- (1) For plains: Subcenter-3,000; PHC-20,000
 - (2) For hilly and tribal areas: Subcenter-7,000; PHC-30,000
 - (3) For plains: Subcenter-5,000; PHC-30,000
 - (4) For hilly and tribal areas: Subcenter-2,000; PHC-20,000
17. About likelihood ratios for a particular value of a diagnostic test, true statement is -
- (1) Defined as probability of that test result in people without the disease divided by the probability of the result in people with the disease.
 - (2) $\text{Pre-test Odds} = \text{Post-test odds} \times \text{likelihood ratio}$
 - (3) $\text{Probability} = \text{Odds}/(1+\text{Odds})$
 - (4) $\text{LR+} = \text{Specificity}/(1-\text{Sensitivity})$
18. Which disease is not covered under the national vector borne disease control programme?
- (1) Filariasis
 - (2) Japanese encephalitis
 - (3) Chikungunya
 - (4) Oriental sore

19. Behavioural sciences includes all, Except:
- (1) Sociology
 - (2) Social Psychology
 - (3) Economics
 - (4) Anthropology
20. Penicillin injection is recommended every 3 weeks for diagnosed cases of rheumatic heart disease. This is an example of -
- (1) Health promotion
 - (2) Specific protection
 - (3) Early diagnosis and treatment
 - (4) Disability limitation
21. Incentive money paid to ASHA on confirmed diagnosis of a leprosy case brought by her is-
- (1) Rs. 200
 - (2) Rs. 250
 - (3) Rs. 600
 - (4) Rs. 400
22. Which is not true about Essential Fatty Acids (EFA)?
- (1) EFA are not synthesized in body
 - (2) EFA protect against cardiovascular diseases
 - (3) They raise level of protective lipids in body
 - (4) Coconut oil is rich source of EFA
23. Ergonomics in occupational health that relates to -
- (1) Fitting the job for worker
 - (2) Fitting the worker for job
 - (3) Industrial hygiene
 - (4) All of the above
24. In a surveillance centres for hepatitis B, in a low prevalence area, the method for testing for hepatitis B was single ELISA. This policy was changed to double testing in series. This would result in following two parameters of test being affected:
- (1) Specificity and positive predictive value
 - (2) Sensitivity and positive predictive value
 - (3) Sensitivity and negative predictive value
 - (4) Specificity and negative predictive value

25. Rashtriya Bal Swasthya Karyakram is to know -
- (1) Defect at birth
 - (2) Development delay and disability
 - (3) Deficiency disease
 - (4) All of the above
26. Progressive massive fibrosis is a lung condition seen in -
- (1) Silicosis
 - (2) Anthracosis
 - (3) Bagassosis
 - (4) Stannosis
27. True about population norm under ICDS scheme for setting up an anganwadi centre for tribal /desert/hilly/riverine area-
- (1) One mini AWC for 150-300 population
 - (2) One mini AWC for 150-400 population
 - (3) One AWC for 500-800 population
 - (4) One AWC for 800-1600 population
28. UNDP works as:
- (1) The main source of funds for technical assistance
 - (2) The main source of funds for child health
 - (3) The source of funds for research and development
 - (4) Education source for developing countries
29. The "shake test" is used to check potency of:
- (1) Heat sensitive vaccines
 - (2) Freeze sensitive vaccines
 - (3) High sensitive vaccines
 - (4) All vaccines
30. There are three basic types of economic evaluation methodology: (1) Cost-Effectiveness Analysis (CEA); (2).....; and (3) Cost-Benefit Analysis (CBA). What is the missing type? Select the correct answer from the list below -
- (1) Insurance Benefits Analysis
 - (2) Technical Efficiency Analysis
 - (3) Clinical Efficiency Analysis
 - (4) Cost-Utility Analysis (CUA)

31. Which of the laboratory investigation is not done at the sub-centre for pregnant lady?
- (1) Haemoglobin estimation
 - (2) Rapid malaria test
 - (3) Urine for albumin and sugar
 - (4) Blood group test
32. A three and half year child was brought to a PHC, he has not received primary immunization. Which of the following is the vaccination advice to such a child?
- (1) BCG, DT1, OPV1, and DPT2, OPV2 after 4 weeks
 - (2) BCG, DT2, OPV1, Measles and Vitamin A
 - (3) DPT1, OPV1, Measles 1, JE 1 (where applicable) and 2ml of Vitamin A Solution
 - (4) DT1, DT2 and Booster after 1 year
33. Indicators for Human Development Index includes all, EXCEPT:
- (1) Life expectancy at age one
 - (2) Mean year of schooling
 - (3) Expected years of schooling
 - (4) GNI per capita
34. In which one of the following circumstances will the prevalence of a disease in the population increase, all else being constant?
- (1) If the incidence rate of the disease falls
 - (2) If survival time with the disease increases
 - (3) If recovery of the disease is faster
 - (4) If the population in which the disease is measured increases
35. An unstable and emotional temporary social group with a leader is known as -
- (1) A band
 - (2) A crowd
 - (3) A herd
 - (4) A mob
36. In a social group, a social act, which is considered natural and right is referred to as -
- (1) Taboo
 - (2) Ritual
 - (3) Custom
 - (4) Tradition

37. A mother is HBs Ag positive at 32 weeks of pregnancy. What should be given to the newborn to prevent neonatal infection?
- (1) Hepatitis B vaccine + immunoglobins
 - (2) Immunoglobins only
 - (3) Hepatitis B vaccine only
 - (4) Immunoglobins followed by vaccine 1 month later
38. The disease caused by organic dust:
- (1) Silicosis
 - (2) Siderosis
 - (3) Farmer's lung
 - (4) Baritosis
39. The most effective tool of measuring incidence of a disease in a community is -
- (1) Case control study
 - (2) Cohort study
 - (3) Cross sectional study
 - (4) Cross over study
40. Neonatal screening is commonly done for all of the following disorders, EXCEPT -
- (1) Phenylketonuria
 - (2) Hemoglobinopathies
 - (3) Congenital dislocation of hip
 - (4) Albinism
41. In the context of epidemiology, the following are important criteria for making casual inferences, EXCEPT -
- (1) Strength of association
 - (2) Consistency of association
 - (3) Coherence of association
 - (4) Predictive value
42. The Rockefeller Foundation initially started working in India on -
- (1) Tuberculosis
 - (2) Malaria
 - (3) Leprosy
 - (4) Hookworm

43. Continuous data can be presented through -
- (1) Histogram
 - (2) Bar diagram
 - (3) Pie diagram
 - (4) Map diagram
44. Best way of teaching in rural area about ORS is -
- (1) Demonstration
 - (2) Discussion
 - (3) Flash card
 - (4) Lecture
45. Which of the following indice of obesity is height independent?
- (1) Body Mass Index
 - (2) Broca's index
 - (3) Lorentz method
 - (4) Corpulence index
46. In India census is usually conducted in each decade at which time?
- (1) At the end of the first quarter of the first year
 - (2) In the first month of the first year
 - (3) In the last month of the first year
 - (4) In the mid of the first year
47. Gantt charting is used for the management of -
- (1) Finance
 - (2) Human resources
 - (3) Time
 - (4) Material
48. In one of the method of health communication, 4 to 8 persons who are qualified to talk about the topic sit and discuss a given problem/topic in front of a large group of audience, this method is called as -
- (1) Symposium
 - (2) Panel discussion
 - (3) Workshop
 - (4) Seminar

49. According to Healthful school environmental criteria, percent of doors and windows to floor area should be:
- (1) 15%
 - (2) 20%
 - (3) 25%
 - (4) 30%
50. Interferon gamma release assay is a new test to diagnose -
- (1) Malaria
 - (2) Covid-19 disease
 - (3) HIV infection
 - (4) Tuberculosis
51. Which is not a criteria for the disease to be screened?
- (1) The disease should be important public health problem
 - (2) There should be an effective treatment
 - (3) Expected benefits of early detection should exceed the risk and cost
 - (4) Prevalence should be low
52. Concept of health based on the "germ theory of disease" is :
- (1) Ecological concept
 - (2) Biomedical concept
 - (3) Psychosocial concept
 - (4) Holistic concept
53. The first step in investigating an AEFI (Adverse Events Following Immunization) is:
- (1) Investigate and collect data
 - (2) Confirm information in report
 - (3) Assess the service
 - (4) Formulate a working hypothesis
54. For isolated slum cluster one urban primary health centre can be established for -
- (1) 5000-10,000 population
 - (2) 3000-5000 population
 - (3) 1000-2000 population
 - (4) 2000-4000 population

55. Standalone ICTC (Integrated Counselling and Testing Centre) are located-
- (1) In medical college and district hospital
 - (2) At primary health centre
 - (3) Below block level
 - (4) In hard-to-reach areas
56. Which of the following is incorrectly matched?
- (1) Agent changes in form and number: Cyclopropagative transmission
 - (2) Agent merely multiples in vector, but no change in form: propagative transmission
 - (3) Agent undergoes only development but no multiplication: Cyclodevelopmental transmission
 - (4) Agent transmitted from nymph to adult vector: Transovarial transmission
57. "Imbecile" has an IQ of:
- (1) 25-49
 - (2) 50-69
 - (3) 70-79
 - (4) 80-89
58. You have diagnosed a patient clinically as having SLE and ordered 6 tests out of which 4 tests have come positive and 2 are negative. To determine the probability of SLE at this point, you need to know -
- (1) Prior probability of SLE, sensitivity and specificity of each test
 - (2) Incidence of SLE and the predictive value of each test
 - (3) Incidence and prevalence of SLE
 - (4) Relative risk of SLE in the patient
59. The Sustainable Development Goal (SDG) related to 'good health and well being' is -
- (1) Goal 1
 - (2) Goal 2
 - (3) Goal 3
 - (4) Goal 4
60. Prudent diet is -
- (1) Diet for dietary goal achievement
 - (2) Diet, which contains variety of foods to safe guard from deficiencies
 - (3) Diet on which a person or group lives
 - (4) Diet, which fulfills recommended daily allowances

61. Which of the following schemes is for adolescent girls?
- (1) Rashtriya Kishor Swasthya Karyakram
 - (2) SABLA
 - (3) Weekly Iron and Folic Acid Supplementation
 - (4) All of the above
62. Last case of polio in India was seen in year -
- (1) 2010
 - (2) 2011
 - (3) 2012
 - (4) 2013
63. Vaccine, which is most sensitive to heat, is?
- (1) Oral polio vaccine
 - (2) BCG vaccine
 - (3) Measles vaccine
 - (4) Influenza vaccine
64. The sound level of 'whisper noise' is:
- (1) 73dB
 - (2) 80dB
 - (3) 45dB
 - (4) 20dB
65. The unipurpose workers were reoriented as 'multipurpose worker' or 'health workers' on the suggestion of:
- (1) Bhore Committee
 - (2) Kartar Singh Committee
 - (3) Shrivastav Committee
 - (4) Jungalwalla Committee
66. The toxic agent of "epidemic dropsy" is -
- (1) BOAA
 - (2) Sanguinarine
 - (3) Ergot alkaloids
 - (4) Pyrrolizidine alkaloids
67. Depot medroxyprogesterone acetate is given as -
- (1) 100 mg every 3 months
 - (2) 150 mg every 3 months
 - (3) 150 mg every month
 - (4) 150 mg every 6 months

68. Vaccine Associated Paralytic Polio (VAPP) caused by strain of polio -
- (1) Type one
 - (2) Type two
 - (3) Type three
 - (4) All of the above
69. WHO steps approach is a standard surveillance tool for -
- (1) Communicable disease
 - (2) Non-communicable disease
 - (3) Nutritional deficiency
 - (4) Immunodeficiency disease
70. Sanitary idea was given by which public health specialist?
- (1) Robert Koch
 - (2) Joseph Lister
 - (3) Edwin Chadwick
 - (4) John Snow
71. Low birth weight is newborn whose weight is -
- (1) Less than 2500 gram weight
 - (2) 2500-2800 gram weight
 - (3) 2800-3200 gram weight
 - (4) More than 3200 gram weight
72. Generation time in epidemiology is defined as -
- (1) The interval between marriage and the birth of first child
 - (2) The interval of time between the receipt of infection by host and maximal infectivity of the host
 - (3) The interval of time between primary case and secondary cases
 - (4) Interval of time between invasion by infectious agent and appearance of first sign or symptom of the disease in question
73. True about case control study is -
- (1) More expensive
 - (2) Those with disease and not diseased compared
 - (3) Attributable risk is estimated
 - (4) None of these

74. A health department sometimes adds a disease to the notifiable disease list even if no effective control measures are available. This action is justifiable, if -
- (1) The health department is well staffed and can handle the addition without compromising its other activities
 - (2) The disease is on the notifiable disease list of a neighbouring state with a similar population
 - (3) The disease is new, and surveillance reports may shed light on its epidemiology
 - (4) The incidence of the disease has been steadily increasing
75. Which of the following are TRUE of "Gram Panchayat"?
- i. It is the executive body of the gram sabha
 - ii. Strength varies from 5 to 7
 - iii. Hold the office for 3-4 years
 - iv. Headed by a Panchayat Secretary
- (1) i and iii are correct
 - (2) i, ii and iii are correct
 - (3) i; ii and iv are correct
 - (4) All are correct
76. Practical size (in micron) at which the dust particles gets lodged in the respiratory tract?
- (1) 5-10
 - (2) 0.5-3
 - (3) 0.5-0.1
 - (4) 3-5
77. All the following are true in a Randomized Control Trial (RCT), EXCEPT -
- (1) Baseline characteristics of intervention and control group should be similar
 - (2) Investigator's bias is minimized by double blinding
 - (3) The sample size required depends on the hypothesis
 - (4) The drop-outs from the trial should be excluded from the analysis
78. Most sensitive and specific tool for screening of breast cancer is:
- (1) Breast self examination
 - (2) Palpation by physician
 - (3) Mammography
 - (4) Thermography

79. All of the following are true about the Herd Immunity for infectious diseases, EXCEPT -
- (1) It refers to group protection beyond what is afforded by the protection of immunized individuals
 - (2) It is likely to be more for infections that do not have a sub-clinical phase
 - (3) It is affected by the presence and distribution of alternative animal hosts
 - (4) In the case of tetanus it does not protect the individual
80. All the statements are true about standardization, EXCEPT -
- (1) Standardization allows comparison to be made between two different populations.
 - (2) The national population is always taken as the standard population.
 - (3) For direct standardization, age specific rates of the study population are applied to that of the standard population.
 - (4) For indirect standardization, age specific rates of the standard population are applied to that of the study population.
81. Use of Information, Communication Technology for collection, compilation analysis and dissemination was first used in 2004 by -
- (1) NMCP
 - (2) NLEP
 - (3) IDSP
 - (4) NBCP
82. Most major cause of maternal mortality in India is -
- (1) Sepsis
 - (2) Obstructed labour
 - (3) Haemorrhage
 - (4) Unsafe abortion
83. Calorie coefficient consumption unit for adult male doing sedentary work is -
- (1) 0.9
 - (2) 1.0
 - (3) 1.2
 - (4) 0.8
84. Every authorized person shall maintain records related to handling of biomedical waste for a period of -
- (1) 5 years
 - (2) 7 years
 - (3) 3 years
 - (4) 10 years

85. Which is not a non-probability sampling technique?
- (1) Quota sampling
 - (2) Cluster sampling
 - (3) Purposive sampling
 - (4) Snow-ball sampling
86. Which of the following is not a zoonoses?
- (1) Yellow fever
 - (2) Zika virus disease
 - (3) Nipah virus disease
 - (4) Plague
87. "Rule of halves" and "Tracking" phenomenon is applicable to which of the following diseases?
- (1) Stroke
 - (2) Hypertension
 - (3) Cancer
 - (4) Diabetes
88. 1 ml of iron syrup for children from 6 months to 5 years of age contain:
- (1) 20 mg elemental iron
 - (2) 100 mg of elemental iron
 - (3) 2 mg elemental iron
 - (4) 1 mg of elemental iron
89. Which statement is not true about active immunity?
- (1) It is produced by immunization
 - (2) It is temporary
 - (3) It produces memory cells
 - (4) It is specific for a given disease
90. All the following indicators are included in Physical Quality of Life Index (PQLI), EXCEPT -
- (1) Infant mortality rate
 - (2) Life expectancy at age one
 - (3) Literacy rate
 - (4) Per capita income

91. The response which is graded by an observer on an agree on disagree continuum is based on-
- (1). Visual analog scale
 - (2) Guttman scale
 - (3) Likert scale
 - (4) Adjective scale
92. Incidence of sickness absenteeism in India:
- (1) 10-15%
 - (2) 5-10%
 - (3) 1-5%
 - (4) 15-20%
93. What does 'S' stand for in project SATH-E, that was launched in 2017 by government of India to identify and build three 'role model' States for the school education sector.
- (1) Sustainable
 - (2) Social
 - (3) Societal
 - (4) Supervisory
94. Yield in a screening test depends upon all, EXCEPT-
- (1) Sensitivity and specificity of the test
 - (2) Prevalence of the disease
 - (3) Participation of the individual in the detection program
 - (4) Etiology of disease
95. All are specific use of biostatistics in pharmacology, EXCEPT -
- (1) To find the action of a drug
 - (2) To compare two different drugs
 - (3) To find relative potency of a new drug
 - (4) To find limit of normality in variables
96. The drug of choice for chemoprophylaxis in contacts of a patient of pneumonic plague is -
- (1) Penicillin
 - (2) Rifampicin
 - (3) Erythromycin
 - (4) Tetracycline

97. David Morley developed -
- (1) Road-to-Health Chart
 - (2) Well Baby Clinic
 - (3) School Health Service
 - (4) Under Five Clinic
98. The effective temperature of 'comfort zone' is -
- (1) 69-76°F
 - (2) 77-80°F
 - (3) 83-85°F
 - (4) 86-90°F
99. Time between disease onset and usual time of diagnosis is -
- (1) Lead time
 - (2) Serial interval
 - (3) Time lag
 - (4) Latent period
100. Which of the following is not a sewage treatment method?
- (1) Oxidation pond
 - (2) Trickling filter
 - (3) Sludge digestion
 - (4) Controlled tipping
101. Which agency is providing assistance of services under National Blindness Control Programme?
- (1) WHO (World Health Organization)
 - (2) SIDA (Swedish International Development Agency)
 - (3) DANIDA (Danish International Development Agency)
 - (4) UNICEF
102. All are true about community diagnosis, EXCEPT:
- (1) Made by epidemiologist
 - (2) Concerned with individual case
 - (3) Concerned with both - sick and healthy people
 - (4) Concerned with statistical values

103. The disease which is inherited according to the Mendelian laws:
- (1) Turner's syndrome
 - (2) Down's syndrome
 - (3) Klinefelter's syndrome
 - (4) Marfan's syndrome
104. Adverse effects of smoking during pregnancy includes all, EXCEPT -
- (1) Low birth weight baby
 - (2) Increased risk of perinatal death
 - (3) Still birth
 - (4) Post term baby
105. Total dependency ratio is -
- (1) Total dependency ratio = $\frac{\text{Children of 0 - 14 years} + \text{population above 65 years of age}}{\text{Population of 15 - 64 years}} \times 100$
 - (2) Total dependency ratio = $\frac{\text{Children of 0 - 5 years} + \text{population above 65 years}}{\text{Mid year population}} \times 100$
 - (3) Total dependency ratio = $\frac{\text{Children of 0 - 5 years} + \text{population above 65 years of age}}{\text{Mid year population}} \times 100$
 - (4) Total dependency ratio = $\frac{\text{Children of 0 - 15 years} + \text{population more than 60 years}}{\text{Population of 15 to 65 years}} \times 100$
106. The difference between measures and indicators is that:
- (1) Measures are unambiguous quantities, whereas indicators are devised from common sense understandings
 - (2) Indicators have a more direct relationship to the underlying concept than measures
 - (3) Measures are intuitively devised and then applied as if they were direct indicators of a concept
 - (4) Indicators are unambiguous quantities, whereas measures are subject and value laden
107. Hardy-Weinberg rule is related to :
- (1) Population genetics
 - (2) Health economics
 - (3) Social medicine
 - (4) None of the above
108. Not a true statement about disinfection of water by chlorine -
- (1) Chlorine has no effect on spores, ova & cyst except in high doses
 - (2) Disinfection is mainly due to hypochlorous acid
 - (3) pH of water should be around 7
 - (4) Correct dose of chlorine to be used is equal to chlorine-demand

109. True about lead poisoning is:
- (1) Measurement of co-protoporphyrin in urine is not a useful test for poisoning
 - (2) Lead in urine should be less than 10mg/dl
 - (3) Most cases of industrial lead poisoning is due to ingestion
 - (4) If Amino Levulinic Acid in urine exceed 5mg/dl it indicates lead absorption
110. Kyoto protocol is linked with -
- (1) Protection of covid-19 person
 - (2) Placing cap on emission of greenhouse gases
 - (3) Right of the child
 - (4) In context to blood safety
111. A known HIV positive patient is admitted in an isolation ward after an abdominal surgery following an accident. The resident doctor who changed his dressing the next day found it to be soaked in blood. Which of the following would be right method of choice of discarding the dressing?
- (1) Pour 1% hypochlorite on the dressing material and send it for incineration in an appropriate bag
 - (2) Pour 5% hypochlorite on the dressing material and send it for incineration in an appropriate bag
 - (3) Put the dressing material directly in an appropriate bag and send for incineration
 - (4) Pour 2% lysol on the dressing material and send it for incineration in an appropriate bag
112. Protection of Children from Sexual Offences Act was introduced in which year?
- (1) 2010
 - (2) 2012
 - (3) 2014
 - (4) 2015
113. Ground glass appearances in lower two third of the lung fields in chest x-ray is seen in -
- (1) Asbestosis
 - (2) Farmer's lung
 - (3) Anthracosis
 - (4) Silicosis
114. The World Health Organization (WHO) has launched which comprehensive plan to eliminate trans-fat in foods by 2023?
- (1) HEALTH
 - (2) REPLACE
 - (3) CHANGE
 - (4) TRANS HEALTH

115. In national water supply and sanitation programme, a problem village is defined as all, EXCEPT:
- (1) Distance of safe water is greater than 1.6 km
 - (2) Water is exposed to the risk of cholera
 - (3) Water source has excess iron and heavy metals
 - (4) Water infested with guinea worm
116. Serious complication of oral contraceptive is:
- (1) Leg vein thrombosis
 - (2) Headache
 - (3) Break through bleeding
 - (4) Breast tenderness
117. Which of the following statement is not true about triage?
- (1) It should be carried out at the site of disaster.
 - (2) The principle of 'first come, first treated' is followed.
 - (3) Injured are classified bases on the severity of their injuries.
 - (4) Local health workers should be trained in triage system.
118. Creation of "green belt" between industrial and residential area exemplify which method of controlling air pollution?
- (1) Containment
 - (2) Replacement
 - (3) Dilution
 - (4) Substitution
119. In the international death certificate, one of the following is NOT true -
- (1) Part I of the certificate deals with the immediate cause only
 - (2) Part I of the certificate deals with the immediate cause and also the underlying cause
 - (3) Part II records significantly associated diseases
 - (4) The certificate has been recommended by the WHO for international news
120. Methylene blue reduction test is done for estimating -
- (1) Activity of bacteria in milk
 - (2) Faecal contamination of milk
 - (3) Fat content in milk
 - (4) Protein content of milk
121. The last known case of small pox occurred in India in -
- (1) 1975
 - (2) 1977
 - (3) 1980
 - (4) 1982

122. According to the World Malaria Report, 2020 released by World Health Organization, which country recorded the largest reduction in malaria cases in South East Asia?
- (1) India
 - (2) Indonesia
 - (3) Vietnam
 - (4) Thailand
123. Who defined epidemiology as “the study of distribution and determinants of disease frequency in man”?
- (1) Parkin
 - (2) Frost
 - (3) Greenwood
 - (4) McMahon
124. Expired or discarded medicine should be disposed of in -
- (1) Red coloured bag or bin
 - (2) White coloured bag or bin
 - (3) Card board box with blue coloured marking
 - (4) Yellow coloured bag or bin
125. In measles outbreak the contacts immunization starts within -
- (1) 3 days
 - (2) 4 days
 - (3) 6 days
 - (4) 10 days
126. Elderly population of India as per 2011 census constitute -
- (1) 6.8% of population
 - (2) 7.2% of population
 - (3) 8.6% of population
 - (4) 9.2% of population
127. Bio-medical waste management rule, 2016 shall not apply to -
- (1) Ayush hospitals
 - (2) Veterinary hospitals
 - (3) Animal house
 - (4) E-waste

128. Both active and passive immunization can be given simultaneously in all, EXCEPT-
- (1) Tetanus
 - (2) Rabies
 - (3) Measles
 - (4) All of the above
129. While applying chi-square test to a contingency table of 4 rows and 4 columns, the degree of freedom would be -
- (1) 1
 - (2) 4
 - (3) 9
 - (4) 8
130. Several studies have shown that 85% of cases of lung cancer are due to cigarette smoking. It is a measure of -
- (1) Incidence rate
 - (2) Relative risk
 - (3) Attributable risk
 - (4) Absolute risk
131. The first vaccine introduced in india was-
- (1) DPT vaccine
 - (2) BCG vaccine
 - (3) OPV vaccine
 - (4) Measles vaccine
132. All of the following statements regarding Biomedical Waste management are true, Except:
- (1) Human Anatomical waste is thrown in Yellow bag
 - (2) Blue bag waste is disposed by Landfill
 - (3) Incineration ash is discarded in Black bag
 - (4) Material in red bag could be a source of contamination
133. True about meningococcal infection is all, EXCEPT:
- (1) Contacts are treated with rifampicin
 - (2) Vaccine is not given <2 year of age
 - (3) Occurs in hot and dry climate
 - (4) Cases are important in transmission of disease

134. Which is not true about interpersonal method of communication?
- (1) It is most common method
 - (2) Most effective method
 - (3) Feedback is immediate
 - (4) It is not effective in changing behaviour
135. With which organization, World Health Organization has partnered with to provide covid-19 information to the world's most vulnerable people?
- (1) Google
 - (2) Facebook
 - (3) Microsoft
 - (4) Apple
136. Injuries usually exceeds death in which type of disaster?
- (1) Land slides
 - (2) Volcanic eruption
 - (3) Tidal waves
 - (4) Fires
137. Which of the following is not a common type of occupational cancer?
- (1) Skin cancer
 - (2) Stomach cancer
 - (3) Lung cancer
 - (4) Bladder cancer
138. Mites are the vectors of the following diseases, EXCEPT:
- (1) Scabies
 - (2) Scrub typhus
 - (3) Rickettsial pox
 - (4) Kyasanur forest disease
139. Tertiary prevention of mental health is -
- (1) Day care programme
 - (2) Half way home
 - (3) Self-help group
 - (4) All of the above
140. Example of medical diagnostic procedure which do not involve exposure to ionizing radiation?
- (1) MRI (Magnetic Resonance Imaging)
 - (2) X-ray
 - (3) CT (Computed Tomography)
 - (4) Fluoroscopy

141. Follow-up therapy is not given when screening is done for:
- (1) Case detection
 - (2) Control of diseases
 - (3) Research purpose
 - (4) High-risk group
142. Which is the risk factor of coronary heart disease, EXCEPT?
- (1) Increase level of LDL
 - (2) Obesity
 - (3) High homocysteine level
 - (4) Type B personality
143. Sling psychrometer is used for measuring -
- (1) Air velocity
 - (2) Air temperature
 - (3) Humidity
 - (4) Radiant heat
144. Aflatoxin is produced by
- (1) *Aspergillus flavus*
 - (2) *Aspergillus fumigatus*
 - (3) *Aspergillus niger*
 - (4) All of the above
145. Following are properties of slow sand filter, EXCEPT:
- (1) Occupies large area
 - (2) Pretreatment of raw water by coagulation is not required
 - (3) Purification by biological process
 - (4) Cleaning is by backwashing
146. Under Janani Suraksha Yojana, cash assistance, in high performing states, is given -
- (1) To all women
 - (2) To below poverty line and SC, ST women
 - (3) On all births
 - (4) Upto one live birth
147. Not true about correlation coefficient -
- (1) It measures strength of association between two variables
 - (2) It lies between -1 to +1
 - (3) $r = 0$ means no correlation
 - (4) It can predict value of one variable on the base of other variable

148. In critical path method all are true, EXCEPT -
- (1) Time and cost saving
 - (2) Used for repetitive project
 - (3) Consider cost analysis
 - (4) It is event oriented
149. Exposure to benzene causes the following cancer -
- (1) Ovarian cancer
 - (2) Leukemia
 - (3) Breast cancer
 - (4) Oral cancer
150. Shingles is caused by the reactivation of the -
- (1) Small pox virus
 - (2) Monkey pox virus
 - (3) Cow pox virus
 - (4) Chickenpox virus
151. Which is not true about standard normal curve?
- (1) There is only one standard normal curve
 - (2) It is based on infinite large numbers of observations
 - (3) It's mean is one
 - (4) It's standard deviation is one
152. Total Fertility Rate (TFR) gives -
- (1) Completed family size
 - (2) A number of daughter a newborn girl will bear during her lifetime
 - (3) Total number of females in 15-49 years
 - (4) Number of live births per 1000 women
153. Mid day meal scheme was initiated through which ministry?
- (1) Ministry of social welfare
 - (2) Ministry of health and family welfare
 - (3) Ministry of education
 - (4) Ministry of human resources development
154. The performance of screening test is measured by -
- (1) Sensitivity
 - (2) Specificity
 - (3) Predictive value
 - (4) All of the above

155. Nikshay a web enabled, case based monitoring application is related to -
- (1) Leprosy
 - (2) Coronary heart disease
 - (3) Tuberculosis
 - (4) Immunization of child
156. 'Weekly Epidemiological Record' is a publication of -
- (1) World Health Organization (WHO)
 - (2) UNICEF
 - (3) World bank
 - (4) International Red Cross
157. If steroids is taken in pregnancy, the effect on foetus may be -
- (1) Deformity in hand
 - (2) Chromosomal effect
 - (3) Effect on enamel of teeth
 - (4) Impaired growth
158. Facilities available at Adolescent Friendly Health Clinic, EXCEPT -
- (1) RTI/STI problem management
 - (2) Menstrual disorder management
 - (3) Depression management
 - (4) HPV vaccination
159. Stomach cancer is common in -
- (1) 'O' Blood Group People
 - (2) 'A' Blood Group People
 - (3) 'B' Blood Group People
 - (4) 'AB' Blood Group People
160. In the definition of epidemiology, the terms "distribution" and "determinants" taken together refer to -
- (1) Frequency, pattern and causes of health events
 - (2) Dissemination of information to those who need to know
 - (3) Knowledge, attitudes and practices related to health
 - (4) Public health services and resources

161. The recommended dose of I.V. fluid for severely dehydrated infant is -
- (1) 30 ml/kg in one hour then 70 ml/kg in five hours
 - (2) 30 ml/kg in 30 minutes then 70 ml/kg in 2.5 hours
 - (3) 50 ml/kg in 6 hours
 - (4) 30 ml/kg in 6 hours
162. The Protein Efficiency Ratio (PER) is defined as -
- (1) The gain in weight of young animals per unit weight of protein-consumed
 - (2) The product of digestibility coefficient and biological value
 - (3) The percentage of protein absorbed into the blood
 - (4) The percentage of nitrogen absorbed from the protein absorbed from the diet
163. In super ORS all is true, EXCEPT -
- (1) Contain lysine
 - (2) Use within 8 – 12 hours
 - (3) It induces reabsorption of intestinal secretion
 - (4) It can be given to patient of glucose malabsorption syndrome
164. The ability of a surveillance system to detect the cases it is intended to detect is referred to as -
- (1) Predictive value positive
 - (2) Representativeness
 - (3) Sensitivity
 - (4) Specificity
165. “Goitre is prevalent at higher altitude”, is an example of -
- (1) Direct association
 - (2) Indirect association
 - (3) Causal association
 - (4) Temporal association

166. Select the correct sequence of steps involved in the planning process:
- i. Establishment of objectives
 - ii. Assessment of resources
 - iii. Analysis of health situation
 - iv. Prepare alternate plans
- (1) i,ii,iii,iv
 - (2) ii,i,iii,iv
 - (3) iii,i,ii,iv
 - (4) iii,ii,iv,i
167. For children aged 2 months upto 5 years, the drug of choice for the treatment of pneumonia is -
- (1) Ampicillin
 - (2) Benzyl Penicillin
 - (3) Cotrimoxazole
 - (4) Cloxacillin
168. Natural history of disease is best studied by -
- (1) Cross sectional study
 - (2) RCT
 - (3) Case-control study
 - (4) Cohort study
169. The time period between the onset of the primary case and the secondary case is called as:
- (1) Generation time
 - (2) Serial interval
 - (3) Communicable period
 - (4) Incubation period
170. NITI Aayog replaced Yojana Aayog in -
- (1) 2015
 - (2) 2016
 - (3) 2017
 - (4) 2018

171. In a village of 100 children, 60% are immunized against measles. One child travelled outside and returned with measles and infected other 26 children. What is the secondary attack rate?
- (1) 67%
 - (2) 27%
 - (3) 50%
 - (4) 80%
172. According to World Health Organization (WHO) cut off value for diagnosis of anaemia in adult pregnant women is -
- (1) 11 gm/dl
 - (2) 12 gm/dl
 - (3) 11.5gm/dl
 - (4) 13 gm/dl
173. What are the maximum permissible working hours (in work/person/week) according to the Factory Act?
- (1) <42 hours
 - (2) <48 hours
 - (3) <56 hours
 - (4) <60 hours
174. Which of the following is wrong statement?
- (1) One ASHA per 1000 population
 - (2) One PHC per 20,000 population in hilly area
 - (3) One nurse per 10,000 population
 - (4) One subcentre per 5000 population in general area
175. Which method is most commonly associated with a lack of informed consent?
- (1) Qualitative content analysis
 - (2) In-depth interviewing
 - (3) Covert observation
 - (4) Structured interviewing
176. Chlorine demand of water is measured by -
- (1) Horrock's apparatus
 - (2) Chlorimeter
 - (3) Double pot
 - (4) Berkefeld filter

177. Bedaquiline indication is -
- (1) MDR-TB with fluoroquinolone resistant
 - (2) XDR-TB
 - (3) Treatment failure of MDR/XDR TB
 - (4) All of the above
178. First study linking second-hand smoke to lung cancer in non-smokers was published by-
- (1) Takeshi Hirayama
 - (2) Robert Koch
 - (3) Doll and Hill
 - (4) Louis Pasteur
179. Denominator for calculating effective literacy rate is -
- (1) Total population
 - (2) Population aged 7 and above
 - (3) Population aged 5 and above
 - (4) Adult population
180. Which is not MCH (Maternal And Child Health) goal (India)?
- (1) Total fertility - 2.1 by 2025
 - (2) Neonatal mortality – 16 by 2025
 - (3) Infants fully immunize – 60% by 2025
 - (4) Under 5 mortality – 23 by 2025

Space for Rough Work

10/1/20
10/1/20