

CET(PG)-2015

Sr. No. : 192055

Question Booklet Series : A

Important : Please consult your Admit Card / Roll No. Slip before filling your Roll Number on the Test Booklet and Answer Sheet.

Roll No.

In Figures

In Words

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O.M.R. Answer Sheet Serial No.

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Signature of the Candidate : _____

Subject : Masters in Public Health

Time : 90 minutes

Number of Questions : 75

Maximum Marks : 75

DO NOT OPEN THE SEAL ON THE BOOKLET UNTIL ASKED TO DO SO

INSTRUCTIONS

1. Write your Roll No. on the Question Booklet and also on the OMR Answer Sheet in the space provided and nowhere else.
2. Enter the Subject and Series Code of Question Booklet on the OMR Answer Sheet. Darken the corresponding bubbles with **Black Ball Point / Black Gel pen**.
3. Do not make any identification mark on the Answer Sheet or Question Booklet.
4. To open the Question Booklet remove the paper seal gently when asked to do so.
5. Please check that this Question Booklet contains 75 questions. In case of any discrepancy, inform Assistant Superintendent within 10 minutes of the start of test.
6. Each question has four alternative answers (A, B, C, D) of which only one is correct. For each question darken only one bubble (A or B or C or D), whichever you think is the correct answer, on the Answer Sheet with **Black Ball Point / Black Gel pen**.
7. If you do not want to answer a question, leave all the bubbles corresponding to that question blank in the Answer Sheet. No marks will be deducted in such cases.
8. Darken the bubbles in the OMR Answer Sheet according to the Serial No. of the questions given in the Question Booklet.
9. Negative marking will be adopted for evaluation i.e., 1/4th of the marks of the question will be deducted for each wrong answer. A wrong answer means incorrect answer or wrong filling of bubble.
10. For calculations, use of simple log tables is permitted. Borrowing of log tables and any other material is not allowed.
11. For rough work only the sheets marked "Rough Work" at the end of the Question Booklet be used.
12. The Answer Sheet is designed for **computer evaluation**. Therefore, if you do not follow the instructions given on the Answer Sheet, it may make evaluation by the computer difficult. **Any resultant loss to the candidate on the above account, i.e., not following the instructions completely, shall be of the candidate only.**
13. After the test, hand over the Question Booklet and the Answer Sheet to the Assistant Superintendent on duty.
14. In no case the Answer Sheet, the Question Booklet, or its part or any material copied/noted from this Booklet is to be taken out of the examination hall. Any candidate found doing so, would be expelled from the examination.
15. A candidate who creates disturbance of any kind or changes his/her seat or is found in possession of any paper possibly of any assistance or found giving or receiving assistance or found using any other unfair means during the examination will be expelled from the examination by the Centre Superintendent/Observer whose decision shall be final.
16. **Telecommunication equipment such as pager, cellular phone, wireless, scanner, etc., is not permitted inside the examination hall. Use of calculator is not allowed.**

SEAL

1. **Muscular contractions of intestines are called as :**
(A) Coagulation (B) Peristalsis
(C) Anastomosis (D) Aestivation
2. **Number of deciduous teeth in humans are :**
(A) 16 (B) 20
(C) 24 (D) 28
3. **QRS waves are linked with :**
(A) Electrocardiogram (B) Electroencephalogram
(C) Electromyogram (D) Electrophoresis
4. **Rh factor in blood group is :**
(A) Found in people with 'A' blood group only (B) Found only in a person with 'O' blood group
(C) Named after monkeys (D) Named after dogs
5. **Life span of red blood cells in our body is :**
(A) Less than a week (B) 1-2 months
(C) About 3 months (D) More than 6 months
6. **When number of red blood cells in our body is increased too much, it is known as :**
(A) Anisocytosis (B) Leukocytosis
(C) Hemoglobinemia (D) Polycythemia
7. **In women the egg (ovum) is released in which part of the menstrual cycle ?**
(A) On first day (B) At the end of first week
(C) In the middle of the cycle (D) On last day
8. **Which of the following is TRUE about Parthenogenesis ?**
(A) It implies virgin birth (B) It produces diploid organisms
(C) It is seen only in vertebrates (D) It is common in women after 60 yrs. age
9. **Minamata disease is linked to pollution by :**
(A) Arsenic (B) Oil spills
(C) Human organic waste (D) Industrial waste mercury
10. **Units to grade noise pollution are :**
(A) Decibels (B) Hertz
(C) Knots (D) Armstrong

11. Whom of the following is known as father of 'White Revolution' in India ?
(A) Sunderlal Bahuguna (B) V. Kurian
(C) M.S. Swaminathan (D) V.S. Naipaul
12. Which of the following is a vestigial organ in human beings ?
(A) Coccyx (B) Cornea
(C) Caecum (D) Cochlea
13. Excessive growth hormone can lead to :
(A) Graves' disease (B) Hashimoto disease
(C) Gigantism (D) Cretinism
14. Which of the following is TRUE of diabetes insipidus ?
(A) It is due to deficiency of calcium (B) It is due to deficiency of insulin
(C) It is due to deficiency of antidiuretic hormone (D) It is due to deficiency of cadmium
15. During cell division chromosomes can be counted at which stage ?
(A) Telophase (B) Anaphase
(C) Prophase (D) Metaphase
16. Which of the following is TRUE about gluconeogenesis ?
(A) In this the end result is cancer of pancreas
(B) In this non-carbohydrate precursors convert to glucose
(C) In this liver is NOT involved
(D) In this glycolysis occurs to produce glucose
17. Which of the following is TRUE of Ketogenesis ?
(A) It rarely occurs during starvation (B) It is caused by excess of carnitine
(C) It rarely occurs in diabetes mellitus (D) It involves fatty acid oxidation
18. Which of the following is TRUE of cholesterol ?
(A) It is a precursor of steroids (B) It CANNOT be synthesized in body
(C) It is transported from gall bladder to pancreas (D) It leads to atherosclerosis through HDL excess
19. Which of the following statements is correct ?
(A) Xenobiotics are chemical compounds foreign to body
(B) Cytochrome P450s are poor biocatalysts
(C) Hibernating animals lack brown adipose tissue
(D) Non-polar lipids are easily soluble in water

20. Which of the following is a correct statement ?
- (A) Starch is a disaccharide (B) Maltose is a monosaccharide
(C) Inulin is a polysaccharide (D) Ribose is a disaccharide
21. "Hay bacillus does not cause anthrax upon injection". This phenomenon is termed as :
- (A) Antigenic sensitivity (B) Biological specificity
(C) Complementary immunity (D) Disease immunity
22. Which of the following is TRUE of solidifying agents used in microbiology ?
- (A) Gelatin resists liquefaction till 70°C (B) Gelatin is a polysaccharide
(C) Agar is a polysaccharide (D) Agar gel melts at 60°C
23. Which of the following is TRUE of sterilization ?
- (A) Dry heat method is used in autoclaving
(B) Autoclaving is effective in killing spores
(C) Dry heat is more effective than moist heat
(D) Autoclaving uses temperature of 170°C for 90 minutes
24. Which of the following is TRUE about differences between metazoan animals and vascular plants ?
- (A) Energy source is similar (B) Cell walls are absent in both
(C) Plant growth continues throughout life (D) Both have chloroplast
25. Which of the following is correct pair of enzyme and its use ?
- (A) Streptokinase as digestive aid (B) Invertase for candy manufacture
(C) Protease promotes wound healing (D) Pectinase as detergent
26. Which of the following pair of product and fermenting agent is correctly matched ?
- (A) Beer by *Saccharomyces Pasteurianus*
(B) Yoghurt by *Lactobacillus bulgaricus* and *Streptococcus thermophilus*
(C) Bread by *Geotrichum Candidum* and *Penicillium Spp.*
(D) Wine by *Lactobacillus trichodes*
27. Which of the following is a bacterial disease ?
- (A) Chicken pox (B) Rabies
(C) Rubella (D) Diphtheria
28. Which of the following diseases have been eliminated from India ?
- (A) Giardiasis (B) Serum Hepatitis
(C) Typhoid (D) Guinea worm disease

29. Which of the following malignancy is more common in developing countries as compared to West ?
- (A) Carcinoma Cervix (B) Carcinoma Stomach
(C) Carcinoma Breast (D) Cancer Lung
30. Which of the following is TRUE of obesity ?
- (A) It occurs only after the age of 30 years
(B) It DOES NOT have a genetic cause
(C) It DOES NOT have a role in gall bladder disease
(D) In obese people body mass index is above 25
31. For what purpose septic tank is used ?
- (A) Providing safe water supply (B) Disinfection of instruments
(C) Storing infected instruments (D) Human excreta disposal
32. Which chemical is mostly used for water purification in India ?
- (A) Zinc (B) Chlorine
(C) Iodine (D) Potassium permanganate
33. Which of the following is TRUE about Census of India ?
- (A) It was first conducted in 1851 (B) It is conducted in the middle of the year
(C) It also collects information on literacy status (D) It is conducted by Director General Health Services
34. Which of the following systems originated from India ?
- (A) Siddha (B) Unani
(C) Homeopathy (D) Tibb
35. Tridosha theory of Ayurveda comprises of :
- (A) Honey, liquorice and glycyrrhiza (B) Ahimsa, alchemy and phlegm
(C) Vata, pitta, cough (D) Yang, yin, variolation
36. Which of the following diseases are NOT transmitted from animal to man ?
- (A) Plague (B) Rabies
(C) Tape worms (D) Measles
37. Which of the following diseases are NOT spread by houseflies ?
- (A) Amoebic dysentery (B) Typhoid
(C) Chicken pox (D) Conjunctivitis

38. Which of the following is a drawback of boiling as a method of PURIFICATION of water ?
- (A) Removes temporary hardness (B) Alters the taste of water
(C) Does not protect against later contamination (D) Kills useful bacteria in water also
39. 'Baby boomer' generation was related to :
- (A) First World War (B) Second World War
(C) Russia-US Cold War (D) US-Iraq War
40. Which of the following is one of the best indicators of air pollution ?
- (A) Smoke index (B) Carbon dioxide
(C) Bromide index (D) Biological oxygen demand
41. Which of the following is a green house gas ?
- (A) Ozone (B) Sulphur dioxide
(C) Carbon monoxide (D) Nitrous oxide
42. Which of the following is the best measure of protection against occupational deafness ?
- (A) Reduction of working hours (B) Reduction of noise at source
(C) Wearing of ear muffs (D) Early diagnosis of deafness
43. Which of the following is TRUE of mosquitoes ?
- (A) They NEVER rest on bushes (B) They DO NOT hibernate
(C) Males DO NOT bite (D) They live upto 30-75 days
44. Which of the following is TRUE of houseflies ?
- (A) Its life span is upto 1 week (B) Only female houseflies bite
(C) Their flight range is upto 100 meters (D) These can transmit trachoma
45. Which of the following is TRUE about ultraviolet rays irradiation for disinfection of water ?
- (A) Period of exposure is short (B) It can be used in turbid water
(C) Its residual effect lasts for 2 days (D) It is ineffective against virus
46. Which of the following is a disadvantage of ozone as a disinfectant ?
- (A) It has a strong virucidal effect (B) It is a powerful oxidizing agent
(C) It decomposes after disinfection (D) It eliminates odors also
47. Which of the following is an autoimmune disease ?
- (A) Myasthenia gravis (B) Poliomyelitis
(C) Cerebral malaria (D) Leptospirosis

48. Which of the following is TRUE of antibodies ?
- (A) IgE mediates histamine release to cause allergic reaction
 - (B) IgA can cross placenta barrier
 - (C) IgM is the most abundant antibody in blood
 - (D) IgG can harm the newborns
49. Which of the following is TRUE of ruminant animals ?
- (A) These are omnivorous animals
 - (B) These do not belch as a mechanism to expel gas
 - (C) These make cellulase to effectively digest cellulose
 - (D) These have 4 successive stomachs
50. Which of the following is TRUE of carbon cycle ?
- (A) Dissolution of CO_2 in acidic water produces CaCO_3
 - (B) Bicarbonates act as reservoir of carbon
 - (C) Algae are principal agents of photosynthesis
 - (D) Concentration of CO_2 in atmosphere is 3.3% by volume
51. Which of the following is TRUE about electronic microscopy ?
- (A) Specimen as thick as 1000 nm can be imaged
 - (B) In transmission electronic microscopy electrons are reflected back from specimen for imaging
 - (C) 400-1000 voltage is passed between cathode and anode
 - (D) Electron beam can only be produced in a vacuum
52. Fossil fuel burning is the main cause of :
- (A) Nitrous oxide pollution
 - (B) Nitric oxide pollution
 - (C) Nitrogen oxide pollution
 - (D) Sulphur dioxide pollution
53. Coniferous forests are seen in :
- (A) Central India
 - (B) Deserts
 - (C) Satpura hills
 - (D) Himalayan region
54. Killing of Jews and the concept of Aryan Race of Hitler represent :
- (A) Positive Eugenics
 - (B) Negative Eugenics
 - (C) Positive Euthenics
 - (D) Negative Euthenics

55. Rods and cones are found in :
- (A) Retina (B) Iris
(C) Cornea (D) Pupil
56. Use of dead animals as food material by other animals is known as :
- (A) Camouflage (B) Parasitism
(C) Scavenging (D) Commensalism
57. Which of the following is TRUE of Leguminous Plants ?
- (A) These are disease resistant (B) These need very little water for growth
(C) These trap nitrogen from atmosphere (D) These belong to the family cucurbitaceae
58. Polyandry implies which of the following ?
- (A) A woman marries many men
(B) A man marries many women
(C) Insects spreading pollens of plants at many places
(D) Artificial insemination of many animals
59. Seminiferous tubules are found in :
- (A) Kidney (B) Testis
(C) Ovaries (D) Spleen
60. Syphilis is caused by :
- (A) Trypanosoma gambiense (B) Trichinella spiralis
(C) Trichuris trichura (D) Treponema pallidum
61. Jaundice is due to excess of which of the following ?
- (A) Bilirubin (B) Hemoglobin
(C) Immunoglobulin (D) Ceruloplasmin
62. Treadmill test is used to assess the fitness of which organ ?
- (A) Pancreas (B) Liver
(C) Heart (D) Kidney
63. Lockjaw is a term used to describe which disease ?
- (A) Botulism (B) Tetanus
(C) Rabies (D) Epilepsy

64. Mother's milk provides which kind of immunity to the baby ?
 (A) Active (B) Passive
 (C) Autoimmunity (D) Delayed
65. Hypermetropia is the condition where the patient :
 (A) Has difficulty in seeing distant objects (B) Has to use convex lens for correction of vision
 (C) Has problem in color differentiation (D) Has squint in both eyes
66. Carpel tunnel syndrome :
 (A) Develops when key board use is excessive (B) Develops when soldiers are trapped in trenches
 (C) Develops when a child falls in bore hole (D) Is never reported in people aged below 35 yrs
67. In a departmental store some tins of jam are puffed up (bloatd). Consumption of the contents can lead to :
 (A) Ascites (B) Botulism
 (C) Cirrhosis (D) Diabetes
68. Which of the following is a protozoal disease ?
 (A) Plague (B) Ascariasis
 (C) Filaria (D) Malaria
69. Tertiary sector economy is linked with :
 (A) Banking (B) Manufacturing
 (C) Agriculture (D) Forestry
70. 'Perestroika' term originating from Russia denoted :
 (A) End of Cold War (B) Eradication of small pox
 (C) Rise in noncommunicable diseases (D) Disenchantment with public sector
71. 'Egalitarianism' term denotes :
 (A) An active concern for welfare of everyone (B) Principle of equality of gender, caste etc
 (C) A system of belief regulated by reason (D) A disdain for orthodoxy in society
72. Among the 4 ashramas in Indian Society Vanaprastha ashrama is placed at which position ?
 (A) 3rd only (B) 4th only
 (C) 2nd or 3rd interchangeably (D) 3rd or 4th interchangeably

73. In Hinduism Brahma, Daiva, Arsha, Asura, Gandharva, Prajapatya, Rakshasa, Paisacha are the types of :
- (A) Marriages (B) Families
(C) Societies (D) Humans
74. A process in which lower caste people tend to imitate the values, practices and lifestyle of some dominant upper caste is known as :
- (A) Globalization (B) Indoctrination
(C) Westernization (D) Sanskritization
75. 'Social mechanism for exchanging goods and services' expression describes which of the following terms ?
- (A) Caste system (B) Marriage
(C) Economy (D) Market