

COMMON P.G. ENTRANCE TEST-2022 (CPET-2022)

Subject Code : **47**

Test Booklet No.:

Entrance Subject : **Food Science & Nutrition**

Hall Ticket No.:

TEST BOOKLET

Time Allowed : **90 Minutes**

Full Marks : **70**

INSTRUCTIONS TO CANDIDATES

1. **Please do not open this Question Booklet until asked to do so.**
2. Check the completeness of the Question Booklet immediately after opening.
3. Enter your **Hall Ticket No.** on the Test Booklet in the box provided alongside. **Do not** write anything else on the Test Booklet.
4. Fill up & darken Hall Ticket No. & Test Booklet No. in the OMR Answer Sheet as well as fill up Test Booklet Serial No. & OMR Answer Sheet Serial No. in the Attendance Sheet carefully. Wrongly filled up OMR Answer Sheets are liable for rejection.
5. Each question has four answer options marked (A), (B), (C) & (D).
6. Answers are to be marked on the Answer Sheet, which is provided separately.
7. Choose the most appropriate answer option and darken the oval completely, corresponding to (A), (B), (C) or (D) against the relevant question number.
8. Use only **Blue/Black Ball Point Pen** to darken the oval for answering.
9. Please do not darken more than one oval against any question, as scanner will read such markings as wrong answer.
10. **Each question carries equal marks. There will be no negative marking for wrong answer.**
11. **Electronic items such as calculator, mobile, etc., are not permitted inside the examination hall.**
12. Don't leave the examination hall until the test is over and permitted by the invigilator.
13. **The candidate is required to handover the original OMR sheet to the invigilator and take the question booklet along with the candidate's copy of OMR sheet after completion of the test.**
14. Sheet for rough work is appended in the Test Booklet at the end.

1. Plant polysachharide in foods resistant to hydrolysis by human digestive system are called
 - (A) Dietary fiber
 - (B) Soluble fiber
 - (C) Insoluble fiber
 - (D) All of the above

2. Percentage of protein in meat is
 - (A) 1-10%
 - (B) 15-20%
 - (C) 30-40%
 - (D) 40-50%

3. Liver is a rich source of vitamin____
 - (A) A
 - (B) C
 - (C) B
 - (D) K

4. The surface of the muscle is called as
 - (A) Sarcolemma
 - (B) Sarcoplasm
 - (C) Reticulin
 - (D) Collagen

5. The dark bands of muscle is known as _____ bands
 - (A) Isotropic
 - (B) Anisotropic
 - (C) Z-line
 - (D) H-zone

6. Anti-sterility vitamin is vitamin
- (A) C
 - (B) E
 - (C) K
 - (D) D
7. Which of the following is a LAB
- (A) *Streptococcus*
 - (B) *Leuconostoc*
 - (C) Both (A) and (B)
 - (D) *Vagococcus*
8. Putrefaction is related to hydrolysis of
- (A) Starch
 - (B) Protein
 - (C) Fats
 - (D) All of the above
9. Fruits are generally deficient in
- (A) Proteins
 - (B) Carbohydrates
 - (C) Vitamins
 - (D) Water
10. The enzyme responsible for enzymatic browning in cut fruits is
- (A) PP Oxidase
 - (B) Catalase
 - (C) Peroxidase
 - (D) Lipase

11. The substance hold the cells of fruits together is
- (A) Protein
 - (B) Cellulose
 - (C) Pectin
 - (D) Fat
12. Chlorophyll is _____ soluble
- (A) Water
 - (B) Oil
 - (C) Both (A) and (B)
 - (D) Benzene
13. The metal bound to myoglobin is
- (A) Mg
 - (B) Ca
 - (C) Fe
 - (D) Zn
14. One molecule of beta carotene is converted to ____ molecules of Vitamin A.
- (A) 1
 - (B) 2
 - (C) 3
 - (D) 4
15. In berry, the edible part is
- (A) Epicarp
 - (B) Pericarp
 - (C) Endocarp
 - (D) Thalamus

16. The test used for detection of starch
- (A) Glucose test
 - (B) Sodium test
 - (C) Iodine test
 - (D) Salt test
17. Pectin forms gel in the presence of
- (A) Calcium
 - (B) Sugar
 - (C) Acid
 - (D) All of the above
18. Sucrose is
- (A) $C_{12}H_{22}O_{11}$
 - (B) $C_{11}H_{24}O_{12}$
 - (C) $C_{12}H_{24}O_{16}$
 - (D) $C_{12}H_{22}O_{12}$
19. Which of the following microorganism survive over broader pH range?
- (A) Bacteria
 - (B) Yeast
 - (C) Mold
 - (D) None of the above
20. Oligo-sachharides have ____ units of sugar
- (A) 2
 - (B) 3-11
 - (C) 15
 - (D) 20

21. Lemon juice has a pH of
- (A) 7.2
 - (B) 8.1
 - (C) 2.3
 - (D) 5.5
22. Vegetables sown in winter season are known as
- (A) Rabi
 - (B) Kharif
 - (C) Both (A) and (B)
 - (D) None of the above
23. Potato belongs to genus
- (A) Solanum
 - (B) Brassica
 - (C) Daucus
 - (D) None of the above
24. Clove is basically a
- (A) Tuber
 - (B) Bud
 - (C) Bulb
 - (D) Stem
25. Brine is a
- (A) Salt solution
 - (B) Sugar solution
 - (C) Solution of chemical preservatives
 - (D) Acidic solution

26. Carbohydrates have empirical formula
- (A) $C_x(H_2O)_y$
 - (B) $C_x(CHO)_y$
 - (C) $C_x(CO)_y$
 - (D) $C_x(OH)_y$
27. Glycemic refers to rise in blood ____ level after digestion and absorption
- (A) Glucose
 - (B) Cholesterol
 - (C) Serum albumin
 - (D) All of the above
28. The glycogen reserves are stored in
- (A) Pancreas
 - (B) Liver
 - (C) Spleen
 - (D) Stomach
29. Bile acids are
- (A) Polar
 - (B) Non-polar
 - (C) Amphipathic
 - (D) None
30. 1kcal= __KJ
- (A) 4.184
 - (B) 4.814
 - (C) 4.418
 - (D) 4.148

31. Insulin is produced by
- (A) Alpha cells of pancreas
 - (B) Beta cells of pancreas
 - (C) Gall bladder
 - (D) Liver
32. During goiter, there is _____ of thyroid gland
- (A) Enlargement
 - (B) Shrinkage
 - (C) No change
 - (D) None
33. O blood group people are
- (A) Universal recipient
 - (B) Universal donors
 - (C) Both (A) & (B)
 - (D) None
34. Which is good cholesterol?
- (A) LDL
 - (B) HDL
 - (C) Both (A) and (B)
 - (D) VLDL
35. Ptyalin is another name for
- (A) Salivary amylase
 - (B) Pancreatic amylase
 - (C) Trypsin
 - (D) Enterokinase

36. Acid found in vinegar is
- (A) Lactic
 - (B) Acetic
 - (C) Citric
 - (D) All of the above
37. Larger the dissociation constant ____ is the pKa of acid
- (A) Lower
 - (B) Higher
 - (C) Do not effect
 - (D) None
38. Tamarind contains good quantity of
- (A) Tartaric
 - (B) Malic
 - (C) Citric
 - (D) Phosphoric
39. The metal with highest thermal conductivity is
- (A) Steel
 - (B) Silver
 - (C) Copper
 - (D) Aluminum
40. In boiling point diagram the saturated vapour curve is called
- (A) Triple point
 - (B) Boiling point
 - (C) Dew point
 - (D) Saturation point

41. Lactic acid fermentation does not produce
- (A) ATP
 - (B) CO₂
 - (C) NADH
 - (D) Both CO₂ and NADH
42. _____ is an alternative name for baking soda.
- (A) Carbon dioxide
 - (B) Potassium tartarate
 - (C) Sodium bicarbonate
 - (D) Calcium carbonate
43. Which one is a simple lipid?
- (A) Triglycerides
 - (B) Steroids
 - (C) Lecithin
 - (D) LDL
44. Which is a non-reducing sugar
- (A) Sucrose
 - (B) Glucose
 - (C) Fructose
 - (D) Lactose
45. Electrophoresis separation is achieved on the basis of
- (A) ionic charge
 - (B) acidity
 - (C) basicity
 - (D) solubility

46. The pH of stomach is
- (A) 1-2.5
 - (B) 3.5-5
 - (C) 5.5-7
 - (D) 7.5-9
47. Vitamin D deficiency in children causes
- (A) Rickets
 - (B) Marasmus
 - (C) Kwashiorkor
 - (D) Scurvey
48. Glucose melts at ____ °C
- (A) 50
 - (B) 100
 - (C) 150
 - (D) 200
49. Water activity of pure water is
- (A) 0
 - (B) 1
 - (C) 2
 - (D) 100
50. Glycemic index expressed as
- (A) g/min
 - (B) kg/day
 - (C) mg/day
 - (D) none

51. BMI represents the ratio of body mass with respect to height as
- (A) Kg/m²
 - (B) Kg/cm²
 - (C) Kg/inch²
 - (D) pounds/m²
52. Food Safety and Standards Authority of India is a statutory body established under Government of India by
- (A) Ministry of commerce and industry
 - (B) Ministry of corporate affairs
 - (C) Ministry of Food processing Industries
 - (D) Ministry of Health & Family Welfare
53. The head quarter of WHO is located at
- (A) Rome, Italy
 - (B) Geneva, Switzerland
 - (C) New York, USA
 - (D) Sydney, Australia
54. Energy requirement of males having 70kg body weight with moderate activity needs
- (A) 3000kcal/24hr
 - (B) 2500kcal/24hr
 - (C) 2000kcal/24hr
 - (D) 2200kcal/24hr
55. World Food day is celebrated on
- (A) 20th March
 - (B) 1st December
 - (C) 16th October
 - (D) 7th April

56. National Institute of Nutrition located at Hyderabad is established in
- (A) 1918
 - (B) 1980
 - (C) 1950
 - (D) 1972
57. Iron absorption is enhanced by co-ingestion of
- (A) Vitamin C
 - (B) Vitamin B₁
 - (C) Folic acid
 - (D) None of the above
58. Secretion of parathyroid hormone is affected due to the mineral
- (A) Cu
 - (B) Na
 - (C) K
 - (D) Ca
59. Water soluble vitamin is/are
- (A) B
 - (B) C
 - (C) D
 - (D) Both (A) and (B)
60. The green colour of whey is due to:
- (A) Chlorophyll
 - (B) Riboflavin
 - (C) Enzyme
 - (D) All of the above

61. The toned milk has fat content
- (A) 0.5%
 - (B) 1.5%
 - (C) 3%
 - (D) 4.5%
62. The table sugar generally used is a
- (A) Glucose
 - (B) Galactose
 - (C) Mannose
 - (D) Sucrose
63. The ORS formulation recommended by WHO includes
- (A) NaCl 3.5g, KCl 1.5g and glucose 20g dissolved in 500ml water
 - (B) NaCl 2.5g, NaHCO₃ 2.5g and glucose 40g dissolved in 500ml water
 - (C) NaCl 3.5g, NaHCO₃ 2.5g, KCl 1.5g and glucose 20g dissolved in 1000ml water
 - (D) NaCl 3.5g, NaHCO₃ 2.5g, KCl 2.5g and glucose 40g dissolved in 1000ml water
64. Which is not an essential amino acid?
- (A) Valine
 - (B) Methionine
 - (C) Alanine
 - (D) Phenylalanine
65. Ketogenic diet includes
- (A) Very low carbs and low fats
 - (B) Very high carbs and low fats
 - (C) Very low carbs and high fats
 - (D) Very low carbs and high proteins

66. Which one is not considered as thermogenic food?
- (A) Egg
 - (B) Caffeine
 - (C) Conjugated linoleic acid
 - (D) None of the above
67. Olive oil is a rich source of
- (A) MUFA
 - (B) SFA
 - (C) PUFA
 - (D) Phospholipids
68. Raffinose, a trisachharide is composed of
- (A) Glucose, Fructose and Galactose
 - (B) Glucose, Fructose and Mannose
 - (C) Glucose, Fructose and Ribose
 - (D) Glucose, Fructose and Xylose
69. The main campus and headquarter of Central Food Technological Research Institute is located at
- (A) New Delhi
 - (B) Bangaluru
 - (C) Mysore
 - (D) Hyderabad
70. DASH diet is recommended to the patient suffering from
- (A) Diabetes
 - (B) Cancer
 - (C) Alzheimer's disease
 - (D) Hypertension

ROUGH WORK