# AMO/19

# DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO.

#### 2020

### TEST BOOKLET

Time allowed:  $1\frac{1}{2}$  hours

Full marks: 100

Answer **all** the questions.

Questions are of equal value.

TEST BOOKLET SERIES



Serial No. 361	Roll No.:	18813)
	Signature of the Candidate:	Beirdel (f) Person of sector

## INSTRUCTIONS

Candidates should read the following instructions carefully before answering the questions:

- This booklet consists of 12 pages including this front page, containing 100 questions. Verify the Page Nos. and Test Booklet series on each page and bring at once to the Invigilator's notice any discrepancy.
- 2. Answers will have to be given in the Special Answer-Sheets supplied for the purpose.
- 3. Before you proceed to mark in the Answer-Sheet in response to various items in the Test Booklet, you have to fill in some particulars in the Answer-Sheet as per instructions sent to you in the Admit Card. Do not fold the Answer-Sheet as this will result in error in your marks.
- 4. All questions are of multiple-choice answer-type. You will find four probable answers (A), (B), (C) and (D) against each question. Find out which of the four answers appears to you to be correct or the best. Now darken the circle corresponding to the letter of the selected answer in the Answer-Sheet with Black Ball Point Pen as per instructions printed on the reverse of the Admit Card and in the Answer-Sheet.
- 5. One and only one circle is to be fully blackened for answer. Any spot in any other circle (multiple circle) or in wrong circle will be considered as wrong answer. If more than one circle is encoded for a particular answer, it will be treated as a wrong answer.
- 6. There will be negative marking of  $\frac{1}{3}$  mark for each wrong answer.
- 7. There is a blank page at the end of this Booklet for Rough Work.
- 8. The Special Answer-Sheet should be handed over to the Invigilator before leaving the Examination Hall. You are permitted to take away the used Test Booklet after completion of the examination.

S

Find out the correct answer:	Choose the correct option:
1. You have to find a good for	<b>6.</b> Give a synonym of 'detest':
being late, otherwise they won't believe you.	(A) argue
(A) cause	(B) hate
(B) result	(C) discover
(C) excuse	
(D) aim	(D) reveal
Choose the correct option:	chemina)
2. Don't make so much noise. Rita	Choose the correct option:
to study for her ESL test!	the state of the s
(A) try	7 many times every winter in Frankfurt.
(B) tries	
(C) tried	(A) It snows
(D) is trying	(B) It snowed
	(C) It is snowing
Find out the correct answer:	(D) It is snow
3. Convert the following sentence into indirect	
speech choosing the right option:  John said, "Did you see the cricket match on	
television last night?"	Choose the correct option:
(A) John asked me whether I saw the	8. Managers set objectives and decide
cricket match on television the earlier	their organization can achieve them.
night.	(A) what
(B) John asked me whether I had seen the	(B) how
cricket match on television the earlier	(C) which
night.	
(C) John asked me did I see the cricket match on television the last night.	(D) because
(D) John asked me whether I had seen the	48 toward and desired between presenting the
cricket match on television the last	Choose the right preposition:
night.	9. The unions now represent less
Choose the right phrase:	10% of the French work force.
4. A recent survey identified the UK as	(A) of
place in Europe to buy a car.	(B) in
(A) most expensive	(C) than
(B) the more expensive	(D) then
(C) more expensive	and said affect on the state of the said o
(D) the most expensive	countries of a Marchain advisor, when
. SWAR PROFILE	Choose the correct option:
Find out the correct answer:	10. Which of these words is closest in meaning
5. My mother me for breaking	to 'pensive'?
the window.	(A) oppressed
(A) accused (B) complained	(B) caged
(B) complained	
(C) praised	(C) thoughtful
(D) blamed	(D) happy

Choose the correct option:	Choose the correct option:
11. Itennis every sunday morning.	16. She tried to him from doing
(A) playing	something really dangerous, but he didn't listen.
(B) play	(A) avoid
(C) am playing	(B) check
(D) am play	(C) block
	(D) prevent
Find out the correct option:	Find out the correct answer:
12. Theof the meeting is to improve	17. You won't be allowed into the club
the relationship between the two companies.	you wear a suit and tie.
(A) purpose	(A) if
(B) sense	(B) unless
(C) reason	(C) whether
(D) consequence	(D) since
	Character of the subscription of the subscript
	Choose the correct option:  18. Choose the correct passive form of the
Choose the correct option:	following sentence:
13. We haven't had news from	Who gave you permission to enter?
our agent.	(A) By whom were you given permission
(A) some	to enter?
(B) any	(B) By whom given you permission to
(C) no	enter?
(D) None	(C) By whom you were given permission to enter?
	(D) By whom was you given permission to enter?
Choose the right preposition:	
14. A defect can be caused	
negligence committed by one of the members of a	Choose the correct option:
team.	19. The press conference was a because the reporters didn't learn anything new.
(A) by	(A) dissatisfaction
(B) to	
(C) at	(B) regret
(D) in	(C) discontent
	(D) disappointment
Choose the right phrase:	Choose the correct option:
15. The synonym of 'abandon' is:	20. The word 'sacrosanct' means:
(A) try	(A) prayer
(B) join	(B) sanctuary
(C) 1id-	
(C) keep with	(C) pious

- 21. If the numerator and the denominator of a fraction are increased by 2 and 1 respectively then the fraction becomes 1 while if the numerator and the denominator of that fraction are decreased by 4 and 2 respectively then the fraction becomes  $\frac{1}{2}$ .
  - (A)  $\frac{7}{8}$

The fraction is

- (B)  $\frac{2}{5}$
- (C)  $\frac{1}{2}$
- (D) None of the above
- 22. The value of 'a' for which the expression  $(a-2)x^2+3x+5=0$  will not be a quadratic equation is
  - (A) 0
  - (B) 1
  - (C) 2
  - (D) None of the above
- **23.** If 30% of 50% of 70m equals 21, the value of 'm' is
  - (A) 8·0
  - (B) 7·5
  - (C) 4·5
  - (D) 2·0
- 24. Tansen, the great musician, was a respectable member in the court of
  - (A) Bahadur Shah
  - (B) Akbar
  - (C) Shahjahan
  - (D) Jahangir
  - **25.** If  $\frac{x+1}{x} + \frac{x}{x+1} = 2\frac{1}{2}$ , then
    - (A) x = 1 or x = -2
    - (B) x = -1 or x = -2
    - (C) x = -1 or x = 2
    - (D) x = 1 or x = 2

- 26. The famous Rock Garden is located in which city?
  - (A) Chandigarh
  - (B) Jaipur
  - (C) Shimla
  - (D) Lucknow
- 27. If there be a loss of 11% in selling an article at ₹ 178, at what price should it be sold to earn a profit of 11%?
  - (A) ₹200
  - (B) ₹ 222
  - (C) ₹250
  - (D) Insufficient information to determine
- 28. India's only Naval Aviation Museum is located in
  - (A) Kerala
  - (B) Goa
  - (C) Karnataka
  - (D) West Bengal
  - 29. NPA of a commercial bank means
    - (A) Net-Performing Asset
    - (B) New-Performing Asset
    - (C) Non-Personal Account
    - (D) Non-Performing Asset
  - **30.** Find the next number in the sequence 16, 30, 54, 88, 132, .....
    - (A) 186
    - (B) 188
    - (C) 190
    - (D) 206

**31.** How many 5's are there in the following sequence of numbers which are immediately preceded by 7?

8953253855687335775365335738

- (A) One
- (B) Two
- (C) Three
- (D) Four
- 32. If a car travels 120 km from a place A to another place B at 60 kmph but returns at a speed of 40 kmph then the average speed (in kmph) for the round trip (A to B and back) is
  - (A) 50
  - (B) 48
  - (C) 45
  - (D) 42
- **33.** In which of the following festivals are boat races a special feature?
  - (A) Onam
  - (B) Rongali Bihu
  - (C) Pongal
  - (D) Navratri
- 34. The monthly incomes of two persons A and B are in the ratio 4:5 and their monthly expenditures are in the ratio 7:9. If each saves ₹ 50 per month, then the monthly income of B is
  - (A) ₹400
  - (B) ₹500
  - (C) ₹600
  - (D) Cannot be determined
- **35.** Which of the following pairs of words have the same relationship as FAN: HEAT?
  - (A) WATER: DRINK
  - (B) LIGHT: NIGHT
  - (C) TEACH: STUDENT
  - (D) AIR: BREATHE

- **36.** Which industry is the maximum consumer of water?
  - (A) Textile
  - (B) Paper
  - (C) Iron & Steel
  - (D) Thermal Power
- 37. The paintings in the Ajanta and Ellora caves are indicative of the art under the
  - (A) Pallavas
  - (B) Rashtrakutas
  - (C) Chalukyas
  - (D) Pandyas

**38.** 
$$(-1)^{5^2} + 1^{2^5} = ?$$

- (A) -2
- (B) -1
- (C) 0
- (D) 1
- **39.** Who is the author of the book entitled "Freedom Behind Bars"?
  - (A) Sheikh Abdullah
  - (B) Nelson Mandela
  - (C) Kiran Bedi
  - (D) Jawaharlal Nehru
- **40.** The Supreme Commander of the Armed Forces in India is
  - (A) The President
  - (B) The Prime Minister
  - (C) The Defence Minister
  - (D) The Indian Parliament

- **41.** In which of the following states are Garo, Khasi and Jaintia hills located?
  - (A) Assam
  - (B) Manipur
  - (C) Arunachal Pradesh
  - (D) Meghalaya
- **42.** The first Indian to make a speech in Hindi before the UN General Assembly is
  - (A) V.P. Singh
  - (B) Indira Gandhi
  - (C) Atal Behari Vajpayee
  - (D) Sushma Swaraj
  - 43. Where is Bose Institute located?
    - (A) Mumbai
    - (B) Kolkata
    - (C) New Delhi
    - (D) Chennai
- **44.** The book "Poverty and Un-British Rule in India" was written by
  - (A) Mahatma Gandhi
  - (B) Madan Mohan Malviya
  - (C) Bipin Chandra Pal
  - (D) Dada Bhai Naoroji
- **45.** Which of the following does not have red blood cells?
  - (A) Snake
  - (B) Peacock
  - (C) Frog
  - (D) Earthworm

- **46.** Three of the following four are alike in a certain way and so form a group. Which of the following does not belong to this group?
  - (A) Volcano
  - (B) Storm
  - (C) Hurricane
  - (D) Cyclone
- 47. If 'M' denotes '+', 'N' denotes '÷', 'R' denotes '-', 'Q' denotes 'x', then

15M12Q5R40N8 = ?

- (A) 70
- (B) 130
- (C) 45
- (D) 60
- **48.** Broti is 7th from the left and Munni is 5th from the right. When they interchange their positions, Munni becomes 19th from the right. What is Broti's position from the left?
  - (A) 20th
  - (B) 21st
  - (C) 22nd
  - (D) 23rd
- **49.** 'The theory of Evolution' was developed by
  - (A) Newton
  - (B) Mendel
  - (C) Darwin
  - (D) Einstein
- **50.** Aloke earns more than Bijay and less than Netai. Rahil earns more than Aloke and Netai. Biman earns more than only Bijay. Who earns the least among the five of them?
  - (A) Biman
  - (B) Bijay
  - (C) Rahil
  - (D) Cannot be determined

- **51.** FSSAI has issued an advisory banning the use of which material for wrapping and packaging of food items?
  - (A) Newspaper
  - (B) Plastic
  - (C) Polythene
  - (D) None of the above
  - 52. The temperature for gelatinization is about
    - (A) 65° C
    - (B) 70° C
    - (C) 75° C
    - (D) 80° C
- **53.** Hydrogenation is the conversion of unsaturated acid groups into the saturated one by a catalyst \_\_\_\_\_\_.
  - (A) Ti
  - (B) Pb
  - (C) Ni
  - (D) Sn
- **54.** What is the chemical or mechanical cleansing process called?
  - (A) Sterilization
  - (B) Disinfection
  - (C) Decontamination
  - (D) Sanitization
- 55. Esters like flavors in butter are resulted from the action of
  - (A) P. mephitica
  - (B) Aeromones hydrophila
  - (C) P. fragi
  - (D) Pseudomonas synxantha

- **56.** During the preservation of microbial cell culture \_\_\_\_\_.
  - (A) Metabolism stops
  - (B) Metabolism continues
  - (C) Metabolism changes
  - (D) Physiology changes
- 57. Glycerol is used for the synthesis of all except
  - (A) Glucose
  - (B) Phospholipid
  - (C) Glycolipid
  - (D) Triacylglycerol
- **58.** Which is the common indicator organism used in the evaluation of drinking water?
  - (A) E.coli
  - (B) Fecal Coliform
  - (C) Total Coliform
  - (D) Algae
- **59.** The only carbohydrate which is not having any chiral carbon atom is
  - (A) Glyceraldehyde
  - (B) Erythrose
  - (C) Dihydroxyacetone
  - (D) Erythrulose
- **60.** What has been banned for tea bag products by FSSAI from 2018?
  - (A) Use of stapler pins
  - (B) Thread for dipping
  - (C) Cloth bag containing the tea leaves
  - (D) Herbal tea leaves

- **61.** Disintegration of fat globules in homogenization is achieved by which of the following?
  - (A) Turbulence
  - (B) Cavitation
  - (C) Turbulance and Cavitation
  - (D) Pasteurization
- **62.** Why is dietary fibre considered to be an active non-nutrient?
  - (A) It has anti-inflammatory properties but is not stored as fat.
  - (B) It is broken down in the body to provide energy.
  - (C) It acts to stop LDL breaking apart.
  - (D) It is not absorbed but is beneficial to the digestive system.
- **63.** In steaming, a soaked paddy exposed to steam at a pressure of about
  - (A) 2 kg/cm<sup>2</sup>
  - (B) 3 kg/cm<sup>2</sup>
  - (C) 4 kg/cm<sup>2</sup>
  - (D) 5 kg/cm<sup>2</sup>
- **64.** Which out of the followings is required as a coenzyme for the transamination reactions?
  - (A) CoA
  - (B) Pyridoxal Phosphate
  - (C) Folic acid
  - (D) Cobalamine
- **65.** Which gas is used for artificial fruit ripening of green fruit?
  - (A) Ethylene
  - (B) Acetylene
  - (C) Ethane
  - (D) Methane

- **66.** A process of contact and adhesion whereby the particles of a dispersion form large-size clusters is called
  - (A) Coagulation
  - (B) Flocculation
  - (C) Suspension
  - (D) Sedimentation
  - 67. Which of the following is an alpha lactone?
    - (A) Vitamin C
    - (B) Vitamin D
    - (C) Vitamin A
    - (D) Vitamin K
  - 68. Recommended brix for syrup preparation is
    - (A) 65-70
    - (B) 70-80
    - (C) 50-55
    - (D) 40-50
- **69.** Which of the following is *not* a cryoprotective agent?
  - (A) DMSO
  - (B) Glycerol
  - (C) Ethylene Glycol
  - (D) Paraffin Wax
- **70.** The time temperature combination for HTST pasteurization of 71·1°C for 15sec is selected on the basis of
  - (A) Coxiella burnetti
  - (B) E. Coli
  - (C) B. subtillis
  - (D) C. botulinum

- **71.** Which of the following is a must in food labelling?
  - (A) Name
  - (B) Standard Specification
  - (C) Place of Origin
  - (D) All of the mentioned
- **72.** Which of the following is the curing agent in the manufacture of pepperoni?
  - (A) Ground Cayenne pepper
  - (B) Lactic acid
  - (C) Sodium nitrate
  - (D) All of the above mentioned
  - 73. The glycosidic linkage in cellobiose is
    - (A)  $\alpha 1 4$
    - (B)  $\beta 1 4$
    - (C)  $\alpha 1 6$
    - (D)  $\beta 1 6$
- **74.** Which of the following is *not* a step in the process involved in dry milling of maize?
  - (A) Degermination
  - (B) Sifting
  - (C) Removal of moisture
  - (D) Diluting
  - 75. The enzyme used in fruit juice industry
    - (A) Pectin
    - (B) Gelatin
    - (C) Fixin
    - (D) Bromalin

- **76.** Statement 1: Jam cannot be made using pulp of more than one fruit.
- Statement 2: Acid and Pactin content is more in over-ripe fruits than in under-ripe fruits.
  - (A) True, False
  - (B) True, True
  - (C) False, False
  - (D) False, True
- 77. Which one of the following vitamins dissolves in water?
  - (A) D
  - (B) Retinol
  - (C) Thiamin
  - (D) K
- **78.** Which vegetable has a much higher protein content than the others?
  - (A) Potatoes
  - (B) Spinach
  - (C) Haricot beans
  - (D) Turnips
- **79.** Which of the following statements about allosteric enzymes is correct?
  - (A) Allosteric enzymes display Michaelis-Meuten kinetics
  - (B) Allosteric enzymes are usually single subunit enzyme
  - (C) Allosteric enzymes control metabolism
  - (D) Allosteric enzymes display hyperbolic kinetics in response to changes in substrate concentration
- **80.** What is the chemical process that occurs when oxygen comes in contact with the flesh of cut fruit?
  - (A) Enzymatic browning
  - (B) Mincing
  - (C) Poaching
  - (D) Deep frying

(D) Maleic acid

81. The Fed-batch culture is a/an	<b>86.</b> Sinigrin is present in
culture system.	(A) Mustard oil
(A) open	(B) Ricebran oil
(B) closed	(C) Soyabean oil
(C) isolated	(D) Olive oil
(D) semi-closed	CONCRETE DATA OF THE PROPERTY
	97 Most and illegate in the state in the sta
82. Which is the non-carbohydrate water	87. Most spoilage bacteria grow at
insoluble dietary fibre?	(A) acidic pH
(A) Cellulose	(B) alkaline pH
(B) Gums	(C) neutral pH (D) any of the pH
(C) Lignin	(b) any of the pri
(D) Mucilages	TO A file of the above in calculations
02 White distribution is a line	88. Black mold rot is caused by
<b>83.</b> Which anti-microbial additive is used in cheese and cheese products?	(A) A. flavus
(A) Benzoic acid	(B) A. niger
(B) Nitrite	(C) Trichoderma
(C) Acetates	(D) Trichothecium roseum
(D) Sorbates	
(b) botomes	
	89. What is the test used to select the type of
<b>84.</b> has a net charge of zero at pH7.	coagulant required?
(A) Histidine	(A) Bar test
(B) Glutamate	(B) Jar test
(C) Aspartate	(C) Stock test
(D) Lysine	(D) Coagulant test
85. Which of the following acid will have higher	
bacteriostatic effect at a given pH?	<b>90.</b> Mold inhibitor used in bread is
(A) Acetic acid	(A) Calcium carbonate
(B) Tartaric acid	(B) Sodium chloride
(C) Citric acid	(C) Sodium/Calcium propionate

(D) None of the above

91. In Azeotropic distillation remains	<b>96.</b> Tests for proper pasteurization are based on the activity of which enzyme?
low.	(A) Lactase
(A) heat	(B) Diastase
(B) volatility	(C) Phosphatase
(C) relative volatility	(D) Catalase
(D) None of the above	
	97. Legal butter must contain at least what
92. A brown colour in milk may result from	percentage of fat?
(A) Pseudomonas putrefaciens	(A) 70%
(B) the enzymatic oxidation of tyrosine	(B) 80%
by P. fluorescens	(C) 90%
(C) Both (A) and (B) (D) S. marcescens	(D) 95%
93. The degree of unsaturation of lipid can be	98. Yeast are most likely to grow in frozen fruits during
measured as	(A) Slow thawing
(A) Saponification number	(B) Refrigeration
(B) Iodine number	(C) Ambient temperature
(C) Polenske number	(D) High temperature
(D) Reichert Meissil Number	
	99. Proper flavour and aroma of coffee is associated with
94. Which organism can grow in highest	(A) drying coffee beans
concentration of sugar?	(B) curing coffee beans
(A) Molds	(C) roasting
(B) Yeast	(D) All of the above
(C) Bacteria	
(D) Algae	
	<b>100.</b> Rancidity of lipids of lipid rich food stuffs is due to
95. Aminopeptidases cleanes amino acids from	<ul> <li>(A) Hydrogenation of unsaturated fatty acids.</li> </ul>
(A) C-terminal end	(B) Reduction of fatty acids.
(B) N-terminal end	(C) Oxidation of fatty acids.
(C) Both	(D) Dehydrogenation of saturated fatty
(D) None	acids.

Space for Rough Work

