

University of Central Punjab
Sample Paper

Total Marks: 120

Time Duration: 2 Hours

English

1. Where did you go _____ holiday last year? (MCQ - CHOOSE ONE)
 - for
 - on
 - to

2. She was so upset that she burst _____ tears. (MCQ - CHOOSE ONE)
 - into
 - out
 - with

3. You should explain this _____ them. (MCQ - CHOOSE ONE)
 - to
 - at
 - with

4. He has been absent _____ Monday. (MCQ - CHOOSE ONE)
 - from
 - for
 - since

5. Tomorrow's a holiday, so we _____ go to work. (MCQ - CHOOSE ONE)
 - have to
 - have not
 - don't have to

6. My friend Siena _____ to Russia last year. (MCQ - CHOOSE ONE)
 - went
 - has gone
 - has been

7. If I _____ well in my exams, I _____ to university. (MCQ - CHOOSE ONE)
 - will do; will go
 - will do; go
 - do; will go

8. My cousin _____ getting a job in Bahrain. (MCQ - CHOOSE ONE)
 - would like
 - is planning
 - is thinking of

9. I wish I _____ have an exam tomorrow! (MCQ - CHOOSE ONE)

- don't
- didn't
- won't

10. Why on earth isn't Josh here yet? _____ for him for over an hour! (MCQ - CHOOSE ONE)

- I'm waiting
- I've been waiting
- I've waited

11. Daniel's hair is getting far too long; he should _____ soon. (MCQ - CHOOSE ONE)

- cut it
- have cut it
- have it cut

12. "I've got a headache." "Maybe you _____ to take an aspirin." (MCQ - CHOOSE ONE)

- should
- ought
- don't

13. I'm surprised you didn't get upset. If someone said that to me, _____ really angry. (MCQ - CHOOSE ONE)

- I'm
- I was
- I'd be

14. Do you want _____ the match tonight? (MCQ - CHOOSE ONE)

- watching
- watch
- to watch

15. When I was a child, I never _____ about the future. (MCQ - CHOOSE ONE)

- have worried
- used to worry
- was worrying

16. I borrowed _____ pencil from your pile of pencils and pens. (MCQ - CHOOSE ONE)

- a
- an
- the

17. My daughter is learning to play _____ violin at her school. (MCQ - CHOOSE ONE)

- a
- an
- the

18. I bought _____ umbrella to go out in the rain. (MCQ - CHOOSE ONE)

- a

- an
- the

19. One of the students said, " ____ professor is late today." (MCQ - CHOOSE ONE)

- a
- an
- the

20. Our neighbours have ____ cat and ____ dog. (MCQ - CHOOSE ONE)

- a
- an
- the

21. This exercise is _____ than that one. (MCQ - CHOOSE ONE)

- boring
- more boring
- most boring

22. The offer was too _____ to be true. (MCQ - CHOOSE ONE)

- good
- better
- best

23. Earning money has always been the thing that pleases him most. The _____ he becomes, the _____ he is. (MCQ - CHOOSE ONE)

- richer - happier
- more rich - happier
- rich - happier

24. The old woman lived alone, with _____ to look after _____. (MCQ - CHOOSE ONE)

- someone / her
- anyone/ herself
- no one / her

25. A baby learns the meaning of words as _____ are spoken by others and later uses _____ in sentences. (MCQ - CHOOSE ONE)

- Their / they
- they / them
- they / it

26. Some of these clothes are _____, and the rest of _____ belong to Zack. (MCQ - CHOOSE ONE)

- mine / them
- me / they
- hers / their

27. They decided to buy the house because _____ location would allow _____ to get to work very easily. (MCQ - CHOOSE ONE)

- theirs / them
- its / them
- they / us

28. It isn't too cold today, _____. (MCQ - CHOOSE ONE)

- It is.
- Is it?
- Isn't it.

29. He was at the concert, _____. (MCQ - CHOOSE ONE)

- Wasn't it
- Wasn't he
- Didn't he

30. Henry and Juliet have just arrived, _____. (MCQ - CHOOSE ONE)

- They have
- have they
- haven't they

31. There has been strong competition; _____, the new company has made great profits. (MCQ - CHOOSE ONE)

- instead
- despite
- nonetheless

32. The weather report predicts it will rain _____ become colder. (MCQ - CHOOSE ONE)

- and
- neither
- nor

33. The new agent has experience _____ not expertise. (MCQ - CHOOSE ONE)

- but
- with
- however

34. I did not go to the show _____ I had already seen it. (MCQ - CHOOSE ONE)

- until
- because
- so

35. Read over your answers _____ correct all mistakes before you submit. (MCQ - CHOOSE ONE)

- and
- or
- while

36. Susie _____ phoned _____ wrote after she left home. (MCQ - CHOOSE ONE)

- while, and
- either, or
- neither, nor

37. Hi Noreen, Thanks for your email. I'd love to meet for dinner some time. I know you said you'd like to meet _____ the week. (MCQ - CHOOSE ONE)

- while
- inside
- between
- during

38. Choose the options with the correct order of sentences that forms a coherent paragraph. 1. It was just after midnight on July 17th last year. 2. James was driving home from work. 3. The road was clear and he was driving carefully. 4. Suddenly a young girl stepped out into the road in front of him. 5. He tried to stop but it was too late. Options: (MCQ - CHOOSE ONE)

- 1, 2, 5, 3, 4
- 5, 1, 4, 2, 3
- 1, 2, 3, 4, 5
- 4, 1, 5, 3, 2

39. Choose the best topic sentence for the given paragraph: _____ In Death Valley, some wildflower seeds sprout only when it rains. The Sonoran Desert's velvet mesquite has roots that can extend over fifty yards to water sources. The creosote bush can thrive in dry areas like the Sonoran and Mojave Deserts by cloning itself. _____ (MCQ - CHOOSE ONE)

- Plants in Death Valley and the Sonoran and Mojave Deserts thrive despite the heat
- Deserts are home to a strange and beautiful array of plant life
- Desert plants have adaptations that enable them to survive despite their limited access to water

40. Choose the best concluding sentence for given paragraph: _____ In Death Valley, some wildflower seeds sprout only when it rains. The Sonoran Desert's velvet mesquite has roots that can extend over fifty yards to water sources. The creosote bush can thrive in dry areas like the Sonoran and Mojave Deserts by cloning itself. _____ (MCQ - CHOOSE ONE)

- There is a wide variety of plant life in a desert
- Desert plants die easily
- Desert plants ensure their survival by adjusting to their environment and lack of water *

Mathematics

41. $(A \cap B)'$ (MCQ - CHOOSE ONE)

- $A' \cap B'$
- $A' \cup B$
- $A \cup B'$
- $A' \cup B'$

42. $1/100$ means: (MCQ - CHOOSE ONE)

- Milli
- Micro
- Deci
- Centi

43. $2(3x - 6) = 3(2x - 4)$ (MCQ - CHOOSE ONE)

- $x = 0$
- No solution
- Identity
- $x = -12$
- None of the above

44. 20% of \$5,000 = (MCQ - CHOOSE ONE)

- \$2,500
- \$1,000
- \$1,500
- \$3,500
- None of these

45. 25% of _____ = 100 (MCQ - CHOOSE ONE)

- 300
- 400
- 600
- 800

46. $2p^2 - 15p + 25 =$ (MCQ - CHOOSE ONE)

- $(p - 5)(2p - 5)$
- $(p - 5)(2p + 5)$
- $(p + 5)(2p - 5)$
- $(2p - 15)(p + 5)$

47. $2x = 25$ (MCQ - CHOOSE ONE)

- $x = 2$
- $x = 12.5$
- $x = 12$
- $x = 22.5$
- $x = 25$

48. $2x = 3$ is a conditional equation and it is true only if x equals to (MCQ - CHOOSE ONE)

- $2/3$
- $-3/2$
- $3/2$
- $-2/3$

49. $3(4 \times 3 + 6) =$ (MCQ - CHOOSE ONE)

- 57
- 54
- 58
- 60
- 108

50. $3(h - 4) = -9$ (MCQ - CHOOSE ONE)

- $h = 0$
- $h = 1$
- $h = -2$
- none of the above

Analytical

51. 64 is to 8, ? is to 4 (MCQ - CHOOSE ONE)

- 16
- 3
- 4
- 5

52. ink is to pen, paint is to ? (MCQ - CHOOSE ONE)

- colour
- artist
- brush
- rubber

53. AFKP is to BGLQ, CHMR is to ? (MCQ - CHOOSE ONE)

- DINS
- DFKP
- DNIS
- EJOT

54. Ahmad started his home and traveled 10km towards North. Then he traveled 5km towards East. Then, he traveled 10km towards South. Finally, he traveled 5km towards West and reached at his destination. How far he is from his home. (MCQ - CHOOSE ONE)

- 30km
- 20km
- 15km
- 0km

55. Maria walks straight 300m and then turns left and walks 400m. Finally, she turns left and travel 300m. How far Maria is from her starting point? (MCQ - CHOOSE ONE)

- 400m
- 700m
- 1000m
- 1400m

56. A series is given with one number missing. Choose the correct alternative from the given that will complete the series. 138, 142, 146, 150, ?, 142, 138 (MCQ - CHOOSE ONE)

- 148
- 140
- 146
- 144

57. A series is given with one number missing. Choose the correct alternative from the given that will complete the series. 2, 4, 8, ?, 32 (MCQ - CHOOSE ONE)

- 6
- 36
- 16
- 46

58. A series is given with one number missing. Choose the correct alternative from the given that will complete the series. 0,1, 2, 3 , 5, 8, 13,? (MCQ - CHOOSE ONE)

- 19
- 13
- 21
- 22

59. A series is given with one number missing. Choose the correct alternative from the given that will complete the series. 3, 8, 15, 24, 35, ? (MCQ - CHOOSE ONE)

- 48
- 42
- 49
- 50

60. A series is given with one number missing. Choose the correct alternative from the given that will complete the series. 2, 6, 12, 20, 30, ?, 56, 72 (MCQ - CHOOSE ONE)

- 42
- 34
- 36
- 46

61. Which set of letters fill the gaps of the given letter series? UCP_ESTU_PTESTUC_T_ST (MCQ - CHOOSE ONE)

- TCPE
- TETE
- TCPC
- BCPT

62. Which set of letters fill the gaps of the given letter series? LEAR_M_THLEA_NMATH_EAR_MATH (MCQ - CHOOSE ONE)

- NATNT
- TARLT

- TATLN
- NARLN

63. Which set of letters fill the gaps of the given letter series? _ALCULUSC_LCULU_CAL_ULU_ (MCQ - CHOOSE ONE)

- CUSCS
- QASQS
- CASCS
- QUSCS

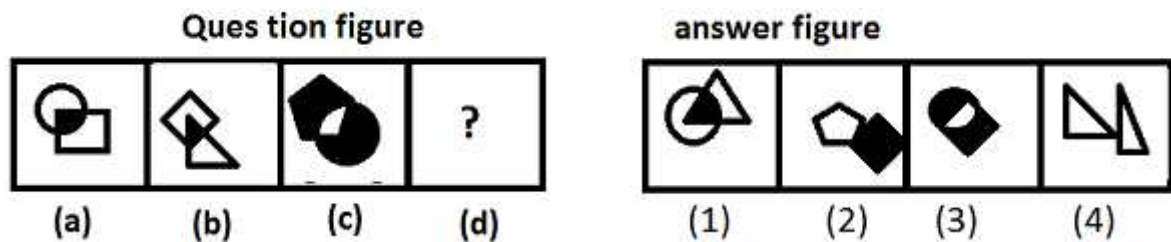
64. A milkman has 75 liters milk in one cane and 45 liters in another. The maximum capacity of container which can measure milk of either container exact number of times is ___ liters: (MCQ - CHOOSE ONE)

- 10
- 15
- 20
- 25

65. A batsman has a certain average of runs for 11 innings. In the 12th inning, he makes a score of 90 runs, thereby increasing his average by 5. His average after the 12th inning is: (MCQ - CHOOSE ONE)

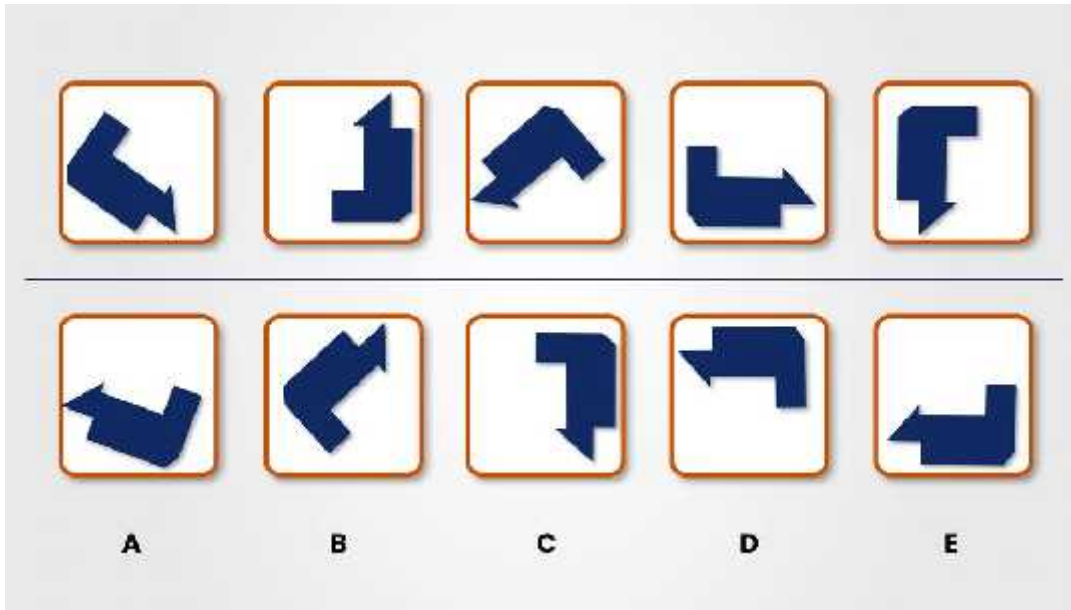
- 30
- 35
- 40
- 45

66. Please see the question figure and answer figure carefully. Find the most suitable answer. Answer figure from alternatives which are numbered from 1 to 4 by using the sequence of set of figures given in question figure.



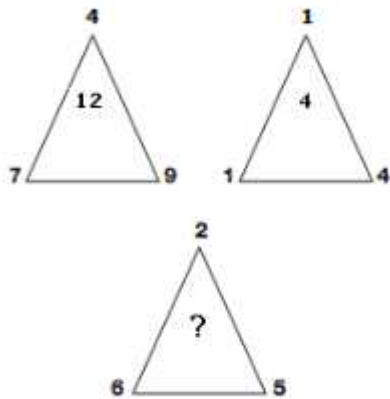
- a) 1
- b) 2
- c) 3
- d) 4

67. Please see the following boxes carefully. Which box contains the identical shape as the upper series?



-) A
-) B
-) C
-) D

69. Which number replaces the question mark?



-) 9
-) 8
-) 4
-) 1

Years of Experience	Fitness Trainer	Client 1 (100-125kg)	Client 2 (125-150kg)	Client 3 (150-250kg)	Final Score
1	Susan	10	20	35	20.5
3	Megan	14	22	45	25.7
4	Tom	25	35	70	41.5
4	Brad	20	25	66	35.3
2	Peter	22	28	49	31.9

1	Melissa	25	33	62	38.5
3	Nick	16	18	52	27.4
2	Russel	14	15	39	21.8
2	Patty	8	12	22	13.4

70. Answer the following statements in either Yes or No:

1. In calculating the final score for the contest, the weight loss for a fitness trainer's third client (Client 3) had equal weighting as the weight loss on Client 2.
2. The median final score for all fitness trainers was 27.40
3. In the data set for "Client 1" clients who worked with a fitness trainer having four years of experience, the range was 8.

Yes, Yes, Yes

No, No, No

No, No, Yes

Yes, Yes, No

Chemistry

71. Which of the following is anhydride of H₂SO₄? (MCQ - CHOOSE ONE)

- SO₂
- H₂S₂O₇
- SO₃
- H₂SO₃

72. Law of octaves was stated by: (MCQ - CHOOSE ONE)

Dobereiner

Moseley

Newland

Mendeleev

73. Which of the following periods contains 32 elements? (MCQ - CHOOSE ONE)

6

3

5

7

74. Keeping in view the size of atoms, which order is correct one? (MCQ - CHOOSE ONE)

- Mg > Sr
- Lu > Ce
- Bs > Mg
- Cl > I

75. Which of the following elements has maximum 1st ionization energy in the periodic table? (MCQ - CHOOSE ONE)

- He
- N
- Ar
- F

76. Across the short period melting point and boiling point of elements: (MCQ - CHOOSE ONE)

- Increases
- Decreases
- First increases then decreases
- Remain constant

77. Hydration energy depends on: (MCQ - CHOOSE ONE)

- Charge on Ion
- Size of Ion
- Number of unpaired electron in the ions
- Both a and b

78. All the following elements show variable oxidation state except: (MCQ - CHOOSE ONE)

- Mn
- Fe
- Cr
- Zn

79. Which of the following oxide is acidic in nature? (MCQ - CHOOSE ONE)

- Na₂O
- MgO
- CO₂
- Al₂O₃

80. Plaster of Paris is used for the followings except: (MCQ - CHOOSE ONE)

- plaster walls
- casts of statuary
- surgery for bandage
- basic soil

81. The mineral CaSO₄.2H₂O has the general name: (MCQ - CHOOSE ONE)

- Gypsum
- Calcite

- Dolomite
- Epsom salt

82. Magnesium burns in air to form: (MCQ - CHOOSE ONE)

- MgO
- Mg₃H₂
- MgO and Mg₃N₂
- MgCO₃

83. Lithium only forms: (MCQ - CHOOSE ONE)

- Sub oxide
- Normal oxide
- Superoxide
- Peroxide

84. The colour of Pb₃O₄ is: (MCQ - CHOOSE ONE)

- Black
- Red
- Yellow
- White

85. Na₂SiO₃ is also known as: (MCQ - CHOOSE ONE)

- Water glass
- Soda lime glass
- Pyrex glass
- Flint glass

86. Which statement is incorrect for Nitrogen? (MCQ - CHOOSE ONE)

- It has the smallest size
- It can form multiple bonds
- It has the highest electronegativity
- It is paramagnet in nature

87. Which of the following reaction of HNO₃ is true? (MCQ - CHOOSE ONE)

- $3\text{Cu(s)} + \text{dil } 8\text{HNO}_3 \rightarrow 3\text{Cu(NO}_3)_2(\text{aq}) + 2\text{NO} + 4\text{H}_2\text{O}$
- $3\text{Cu(s)} + \text{dil } 8\text{HNO}_3 \rightarrow 3\text{Cu(NO}_3)_2(\text{aq}) + 2\text{NO}_2 + 3\text{H}_2\text{O}$
- $3\text{Cu(s)} + \text{dil } 8\text{HNO}_3 \rightarrow 3\text{Cu(NO}_3)_2(\text{aq}) + \text{N}_2\text{O} + 4\text{H}_2\text{O}$
- $\text{Cu(s)} + \text{dil } 4\text{HNO}_3 \rightarrow 3\text{Cu(NO}_3)_2(\text{aq}) + 2\text{N}_2\text{O}_3 + 4\text{H}_2\text{O}$

88. All of the elements of group V A have allotropic forms except: (MCQ - CHOOSE ONE)

- N
- As
- P
- Sb

89. The formula of Stibnite ore is: (MCQ - CHOOSE ONE)

- PbS
- Sb₂S₃
- ZnS
- HgS

90. Consider the reaction: $C + H_2SO_4 \rightarrow CO_2 + SO_2 + H_2O$; In this reaction carbon acts as: (MCQ - CHOOSE ONE)

- Reducing agent
- Oxidizing agent
- Both a and b
- Difficult to predict

Biology

91. Branch of biology which deals with the study of chemical components and chemical processes in living organisms is called (MCQ - CHOOSE ONE)

- Physiology
- Biochemistry
- Atomic biology
- Molecular biology

92. _____ is the potential source of chemical energy for cellular activities (MCQ - CHOOSE ONE)

- C-H bond
- C-O bond
- C-N bond
- P-O-C bond

93. Control of organisms by using living organisms is called (MCQ - CHOOSE ONE)

- Bioremediation
- Integrated disease management
- Antisepsis
- Biological control

94. Unbroken series of organisms arranged from ancestor to descendant sequence is (MCQ - CHOOSE ONE)

- Biodiversity
- Phyletic lineage
- Connecting link
- Evolutionary line

95. Out of total organisms on earth, _____ are vascular plants (MCQ - CHOOSE ONE)

- 53.10%
- 19.90%
- 17.60%
- 9.40%

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99. Percentage of water in brain cells is (MCQ - CHOOSE ONE)

- 20 %
- 65 %
- 85 %
- 89 %

100. Breakdown of large molecules into smaller ones utilizing water molecules is (MCQ - CHOOSE ONE)

- Hydration
- Hydrolysis
- Dehydration synthesis
- Electrolysis

101. The phenomenon of osmosis is opposite to that of (MCQ - CHOOSE ONE)

- Effusion
- Diffusion
- Affusion
- Coagulation

102. The most active site of protein synthesis is the (MCQ - CHOOSE ONE)

- Nucleus
- Ribosome
- Mitochondrion
- Cell sap

103. The cellular organelles called "suicide bags" are (MCQ - CHOOSE ONE)

- Lysosomes
- Ribosomes
- Nucleolus
- Golgi's bodies

104. From the biological viewpoint, solutions can be grouped into (MCQ - CHOOSE ONE)

- Isotonic solution
- Hypotonic solutions
- Hypertonic solution
- All of these

105. Transport of solid material across cell membrane is accomplished by (MCQ - CHOOSE ONE)

- Phagocytosis
- Pinocytosis
- Extrusion
- All of these

106. The ability of the cell membrane to act as a selective barrier depends upon (MCQ - CHOOSE ONE)

- The lipid composition of the membrane
- The pores which allows small molecules
- The special mediated transport systems
- All of these

107. Carrier protein can (MCQ - CHOOSE ONE)

- Transport only one substance
- Transport more than one substance
- Exchange one substance to another

- Perform all of these functions

108. A lipid bilayer is permeable to (MCQ - CHOOSE ONE)

- Urea
- Fructose
- Glucose
- Potassium

109. Enzymes catalyzing electron transport are present mainly in the (MCQ - CHOOSE ONE)

- Ribosomes
- Endoplasmic reticulum
- Lysosomes
- Inner mitochondrial membrane

110. Genetic information of nuclear DNA is transmitted to the site of protein synthesis by (MCQ - CHOOSE ONE)

- rRNA
- mRNA
- tRNA
- Polysomes

111. Which of the following is correct for isoantigens? (MCQ - CHOOSE ONE)

- They are antigens found in all members of different species
- They are antigens found in some members of a species
- They are antigens found in all members of a species
- They are antigens found in some members of different species

112. Numerous antibodies can be prepared, against one antigen, each binds to unique epitopes.

How is this antibody diversity generated? (MCQ - CHOOSE ONE)

- By rearrangements of the DNA encoding the variable regions of the heavy and light chains
- By the combination of different heavy and light chains that form the antigen binding site
- Antibody proteins can physically change their shape to bind different epitopes
- Both A & B

113. The class of immunoglobulin which can cross the placenta is (MCQ - CHOOSE ONE)

- IgM
- IgG
- IgA
- IgD

114. Self-reactive antibodies are not found in significant concentration in normal serum because (MCQ - CHOOSE ONE)

- It is impossible to generate a self-reactive antibody
- Self-reactive B cells are killed by CD8 T cells

- B cells that are stimulated via their surface bound antibody in the absence of T cell help to commit suicide

- Self-reactive B cells switch to IgA which is all secreted and not present in serum

115. Simulation of which of the following will lead to appearance of first antibody to appear following stimulation by an antigen? (MCQ - CHOOSE ONE)

- IgM
- IgA
- IgE
- IgG

116. Antigen binding sites of an immunoglobulin are located in (MCQ - CHOOSE ONE)

- Light chain alone
- Heavy chain alone
- Fc region of the antibody
- Fab regions of the antibody

117. Which of the following mediates Type I hypersensitivity reaction? (MCQ - CHOOSE ONE)

- IgE
- IgA
- IgG
- IgM

118. Saprophytic fungi (MCQ - CHOOSE ONE)

- Engulf their food in order to break it down.
- Secure their food from dead organic materials
- Both A & B
- None of the above

119. The fruiting body of a mushroom is called (MCQ - CHOOSE ONE)

- Sorocarps
- Basidiocarps
- Ascocarps
- Plasmodiocarps

120. The amount of phagocytosis done by the Plasmodium (MCQ - CHOOSE ONE)

- is greater than by the water mold mycelium
- is lesser than by the water mold mycelium
- is equal to by the water mold mycelium
- None of the above