

MIZORAM PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATIONS FOR JUNIOR GRADE OF M.E.S.
UNDER PUBLIC WORKS DEPARTMENT, AUGUST, 2018.

GENERAL STUDIES

Time Allowed : 3 hours

FM : 100

Attempt all questions.

All questions carry equal marks of 1 each.

1. The Appleton Layer is a layer of air in the

- | | |
|-----------------|------------------|
| (a) Mesosphere | (b) Stratosphere |
| (c) Troposphere | (d) Ionosphere |

2. Match the following statements:

- | | |
|---------------------|----------------------|
| A. Force | 1. $\frac{1}{2}mv^2$ |
| B. Kinetic Energy | 2. $F \times t$ |
| C. Potential Energy | 3. $m \times a$ |
| D. Impulse | 4. Mgh |

Codes

	A	B	C	D
(a)	3	4	1	2
(b)	3	1	4	2
(c)	2	4	1	3
(d)	1	2	3	4

3. Which of the following is a physical change?

- | | |
|---|--|
| (a) Electrolysis of acidulated water | (b) Burning of phosphorus in air |
| (c) Dissolving sulphur in carbon disulphide | (d) Passing carbon dioxide into lime water |

4. Which of the following acts as soldiers in the body?

- | | |
|-----------------|------------------|
| (a) Flame Cells | (b) Nerve Cells |
| (c) Leucocytes | (d) Erythrocytes |

5. Viruses have:

- | | |
|----------------|----------------------|
| (a) DNA only | (b) RNA only |
| (c) DNA or RNA | (d) Both DNA and RNA |

6. The part of the grain in cereals where much of the protein lies is the:

- | | |
|--------------------|---------------|
| (a) Aleurone layer | (b) Endosperm |
| (c) Pericarp | (d) Embryo |

7. Bodies at 0°C:

- | | |
|--|---------------------------------|
| (a) Do not radiate heat | (b) Radiate heat |
| (c) Radiate heat only for particular materials | (d) May radiate heat or may not |

8. Heat and smoke in a kitchen are transferred through the chimney by:
 - (a) Conduction
 - (b) Suction
 - (c) Convection
 - (d) Radiation
9. Water has a maximum density at:
 - (a) 0°C
 - (b) -12°C
 - (c) 4°C
 - (d) 15°C
10. The inside of both the walls of a thermos flask are silvered in order to reduce the heat loss by:
 - (a) Convection
 - (b) Radiation
 - (c) Conduction
 - (d) None of the above
11. Frequency of a radiowave is 750 Hz and its wavelength is:
 - (a) 400m
 - (b) 400km
 - (c) 750m
 - (d) Data is insufficient
12. Solid carbon dioxide is known as:
 - (a) Thiokol
 - (b) Drikold
 - (c) Perhydrol
 - (d) Mannitol
13. Honey produced from honey bees is used as food and medicine and the major compound in honey is:
 - (a) Lactose
 - (b) Fructose
 - (c) Sucrose
 - (d) Galactose
14. The oldest product of biotechnology known to man is:
 - (a) Antibiotics
 - (b) Humulin
 - (c) Alcoholic drinks
 - (d) Citric acid
15. Organisms which synthesize their own food are called:
 - (a) Autotrophs
 - (b) Heterotrophs
 - (c) Saprotrophs
 - (d) Auxotrophs
16. The disease in which blood clotting does not take place is known as:
 - (a) Xerophthalmia
 - (b) Haemopoiesis
 - (c) Haemophilia
 - (d) Haemoerythrin
17. Clotting of blood is:
 - (a) A chain reaction
 - (b) Reversible reaction
 - (c) Reflex action
 - (d) No reaction
18. A single heartbeat is equal to:
 - (a) An auricular diastole and a systole
 - (b) A ventricular systole and diastole
 - (c) An auricular systole and ventricular systole
 - (d) An auricular systole, a ventricular systole and a pause
19. The scientist who discovered the blood group is:
 - (a) Landsteiner
 - (b) Lister
 - (c) William Harvey
 - (d) Pasteur
20. Oxygen transport is a function of:
 - (a) White blood corpuscles
 - (b) Red blood corpuscles
 - (c) Blood platelets
 - (d) plasma

21. Lymphocytes are manufactured by:
- (a) Bone marrow (b) Spleen
(c) Liver (d) Lymph nodes
22. Lipase converts fats into:
- (a) Maltose (b) Casein
(c) Peptides (d) Fatty acids and glycerol
23. Which of the following glands receives messages from hypothalamus and communicates with other endocrine glands?
- (a) Pituitary (b) Thyroid
(c) Pancreas (d) Thymus
24. The river par excellence of the Aryans is called:
- (a) Ganga (b) Narmada
(c) Yamuna (d) Sindhu
25. Match List I with List II.

List I

(Names of presidents of the National Congress)

- A. William Wedderburn
B. George Yule
C. Badruddin Tyabji
D. Pheroze Shah Mehta

List II

(Sessions presided by them)

1. Calcutta Session
2. Bombay Session
3. Allahabad Session
4. Madras Session

Choose the correct alternatives:

Codes

	A	B	C	D
(a)	2	3	4	1
(b)	3	2	1	4
(c)	1	2	3	4
(d)	3	1	4	2

26. The principles of Asoka's Dharma (Dhamma) were taken from:
- (a) Buddhism
(b) Jainism
(c) Brahmanism
(d) The moral values of all Indian religions of that period
27. Which of the following was the newspaper of Annie Besant?
- (a) The Hindu (b) Indian Express
(c) Times of India (d) New India
28. Who has built the famous Kailasa Temple at Ellora?
- (a) Govinda III (b) Dantidurga
(c) Amogavarsha (d) Krishna I
29. The 'Pahari School,' 'Rajput School,' Mughal School' and 'Kangra School' represent different style of Indian:
- (a) Music (b) Dancing
(c) Painting (d) Architecture

30. The official language of the Mauryan Court was:
(a) Magadhi (b) Prakrit
(c) Mythili (d) Sanskrit
31. Epigraphy is the study of:
(a) Epidemics (b) Temple architecture
(c) Inscriptions (d) Rocks and mountains
32. The Khilafat Movement was organised to protest against the injustice done to:
(a) Syria (b) Saudi Arabia
(c) Iran (d) Turkey
33. Where was Mahatma Gandhi started the Satyagraha Sabha?
(a) Porbandar (b) Ahmedabad
(c) Bombay (d) Poona
34. Who was the British Prime Minister who convened the First Round Table Conference in London?
(a) Winston Churchill (b) Ramsay MacDonald
(c) Chamberlain (d) Disraeli
35. The Second Round Table Conference failed over the question of:
(a) Priority to be given to communal question
(b) Suspension of Civil Disobedience Movement
(c) Grant of Dominion Status
(d) Date of transfer of power
36. Indian Standard Time is based on longitude:
(a) $82^{\circ}30'E$ near Allahabad (b) $80^{\circ}15'E$ near Chennai
(c) $74^{\circ}30'E$ near Mumbai (d) $87^{\circ}15'E$ near Kolkata
37. When a person crosses the International Dateline from west to east:
(a) he loses 12 hours (b) he loses 24 hours
(c) he gains 24 hours (d) he neither gains nor lose any hours
38. The Gutenberg Discontinuity is located in the interior of the earth between:
(a) The outer core and the inner mantle (b) The outer mantle and Sima layer
(c) The inner mantle and the outer mantle (d) The inner core and the outer core
39. The percentage of the area of ocean and continent on the earth is:
(a) 60 and 40 (b) 71 and 29
(c) 50 and 50 (d) 65 and 35
40. The area of low precipitation on the leeward side of the hills/mountain ranges is called:
(a) Contiguous zone (b) Doldrum zone
(c) Rain shadow zone (d) Roaring forties zone
41. Isobaths is a:
(a) Points of equal depth in an ocean, a sea or lake
(b) Lines of equal value of magnetic variation
(c) Lines of equal value of the salinity of waters
(d) Lines of equal value of rainfall

42. Match List I with List II.

**List I
(Canal)**

- A. Kiel Canal
- B. Suez Canal
- C. Panama Canal
- D. St. Lawrence Waterway

**List II
(Connected)**

- 1. Great Lakes and Atlantic Ocean
- 2. North Sea and Baltic Sea
- 3. Red Sea and Mediterranean Sea
- 4. Caribbean Sea and Pacific Ocean

Choose the correct alternatives:

Codes

	A	B	C	D
(a)	2	3	4	1
(b)	3	2	1	4
(c)	1	2	3	4
(d)	3	1	4	2

43. The boundary line between India and China is defined by:

- (a) Durand Line
- (b) Radcliffe Line
- (c) Mc Mahon Line
- (d) Maginot Line

44. Borlaugh Award is given for excellence in the field of:

- (a) Education
- (b) Space Science
- (c) Literature
- (d) Agriculture

45. The first metal used by man was:

- (a) Copper
- (b) Iron
- (c) Aluminium
- (d) Gold

46. The duration of day and night is always equal at the:

- (a) Equator
- (b) Greenwich Line
- (c) Poles
- (d) Tropics

47. Match List I with List II.

**List I
(Tribes)**

- A. Eskimos
- B. Berbers
- C. Bindibus
- D. Masai

**List II
(Connected)**

- 1. North West Africa
- 2. Tanzania
- 3. Northern Canada
- 4. Australia

Choose the correct alternatives:

Codes

	A	B	C	D
(a)	1	2	3	4
(b)	2	3	4	1
(c)	4	2	1	3
(d)	3	1	4	2

48. Which of the following racial groups is numerically the largest in the world?

- (a) Caucasoids
- (b) Mongoloids
- (c) Negroids
- (d) Australoids

49. The main determinant of population growth amongst the following is:
(a) Mortality factor (b) Fertility factor
(c) Migration factor (d) None of these
50. Who was the first explorer to circumnavigate the world?
(a) Bartolomeu Dias (b) Captain Cook
(c) Christopher Columbus (d) Ferdinand Magellan
51. Wasteland is that land which is:
(a) Uncultivable (b) Degraded beyond repair
(c) Degraded but cultivable (d) Alkaline soil
52. Schrodinger's Basin is situated in:
(a) Jupiter (b) Colorado
(c) Amazon (d) Moon
53. Which among the following is the oldest known city?
(a) Athens (b) Damascus
(c) Delhi (d) London
54. Toda tribals are found in large numbers in:
(a) Andhra Pradesh (b) Tamil Nadu
(c) Orissa (d) Madhya Pradesh
55. Which of the following is a rift valley?
(a) Kashmir Valley (b) Damodar Valley
(c) Narmada Valley (d) Chambal Valley
56. The first to reach the North Pole by overland journey was:
(a) Robert Peary (b) Edward White
(c) Magellan (d) Amundsen
57. International Date Line is a/an:
(a) Straight line (b) Zigzag line
(c) Elliptical line (d) Curved line
58. In which province is Hyderabad located in Pakistan?
(a) Sind (b) NWFP
(c) Punjab (d) Baluchistan
59. The line dividing North Korea and South Korea is the:
(a) 17th parallel (b) 23rd parallel
(c) 38th parallel (d) Order-Neisse Line
60. Kurinji flower blossoms once in twelve years in the:
(a) Darjeeling Hills (b) Kodaikanal Hills
(c) Kumaon Hills (d) Nilgiri Hills
61. The term 'Baker Dozen' denotes:
(a) 11 (b) 12
(c) 13 (d) 14

62. Red Light is used as a danger signal because it is/has:
(a) Pleasing to the eye (b) A traditional colour
(c) Easily distinguishable (d) Most sensitive to the eye
63. 14-carat gold has a purity of approximately:
(a) 30% (b) 59%
(c) 75% (d) 14%
64. Under which article of the constitution was Hindi declared as the official language of the Union?
(a) Article 143 (b) Article 243
(c) Article 343 (d) Article 443
65. Sarkaria Commission was set up to examine:
(a) Public Sector Enterprise (b) Inter-State Relations
(c) Centre-State Relations (d) River Disputes
66. The three constituents of the Indian Parliament are the Lok Sabha, Rajya Sabha and the:
(a) Cabinet (b) Vice-President
(c) President (d) Council of Ministers
67. 'Bahujana Hitaya, Bahujana Sukhaya' is the motto of:
(a) All India Radio (b) Doordarshan
(c) NDTV (d) Times Now
68. The Secretary-General of the United Nations is appointed:
(a) by the General Assembly
(b) from amongst the officers of the permanent secretariat of the United Nations
(c) by the General Assembly on the recommendations of the Security Council
(d) by the Security Council
69. "We have enough to satisfy our need but not our greed" is a quote by:
(a) Jawaharlal Nehru (b) Mahatma Gandhi
(c) Winston Churchill (d) Manmohan Singh
70. Match List I with List II.

**List I
(Writs)**

- A. Habeas Corpus
B. Mandamus
C. Certiorari
D. Quo Warranto

**List II
(Meaning)**

1. To have a body
2. We order
3. Prevent abuse of jurisdiction
4. Where is your warrant of appointment?

Choose the correct alternatives:

Codes

	A	B	C	D
(a)	2	3	4	1
(b)	3	2	1	4
(c)	1	2	3	4
(d)	3	1	4	2

71. The protector of the fundamental right guaranteed under the constitution is:
(a) Parliament (b) Prime Minister
(c) President (d) Supreme Court
72. Who among the following dignitaries cannot be impeached?
(a) President (b) Vice-President
(c) Judges of the Supreme Court (d) Comptroller and Auditor General of India
73. Which among the following does not fall within the jurisdiction of the Indian Parliament?
(a) Fundamental Rights and Duties (b) Consideration of Money Bills
(c) Consideration of Ordinary Bills (d) Foreign Pilgrimage
74. Who among the following is not appointed by the President of India?
(a) Comptroller and Auditor General of India (b) Speaker of the Lok Sabha
(c) Attorney General of India (d) Chief Election Commissioner
75. Which one of the following statements is not correct?
(a) There can be common high court for two or more states
(b) High courts have original as well as appellate jurisdiction
(c) A judge of a High Court can be transferred from one High Court
(d) Salaries and allowances of the judges of the high court are determined by the Supreme Court of India
76. Which one of the following is not a feature of the Indian Constitution?
(a) Federal government (b) Parliamentary government
(c) Presidential government (d) Independent of the Judiciary
77. The President issues ordinances on the advice of the:
(a) Union Council of Ministers (b) Union Law Minister
(c) Supreme Court of India (d) Attorney-General of India
78. By which amendment of the constitution was the tenure of the Lok Sabha reduced to five years which was fixed as six years under the 42nd Amendment?
(a) 43rd Amendment (b) 44th Amendment
(c) 45th Amendment (d) 46th Amendment
79. Right to Property was abolished as one of the Fundamental Rights under the:
(a) 42nd Amendment (b) 43rd Amendment
(c) 44th Amendment (d) 45th Amendment
80. 7 RCR became the official residence of the Prime Minister of India during the tenure of:
(a) Rajiv Gandhi (b) Indira Gandhi
(c) V.P. Singh (d) Atal Bihari Vajpeee
81. The absolute minimum number of times that Union Parliament must meet every year is:
(a) 1 (b) 2
(c) 3 (d) 4
82. Article 164 provides there shall be a Minister in charge of tribal welfare in three specified states:
(a) Mizoram, Meghalaya and Madhya Pradesh (b) Assam, Mizoram and Meghalaya
(c) Assam, Orissa and Madhya Pradesh (d) Bihar, Madhya Pradesh and Orissa

83. The residuary powers under the Constitution vest with the:
- (a) President (b) Prime Minister
(c) Union Parliament (d) Lok Sabha
84. Which of the following is not included in the list of Fundamental Duties in the constitution?
- (a) To safeguard public property and to abjure violence
(b) To uphold and protect the sovereignty, unity and integrity of the country
(c) To uphold secularism
(d) To abide by the constitution and respect its ideals
85. Which among the following locations is not correct:
- | Name | Location |
|------------|-----------|
| (a) UNESCO | Paris |
| (b) ILO | Geneva |
| (c) FAO | Brussels |
| (d) ICJ | The Hague |
86. Which among the following states is covered by Article 370 of the Constitution?
- (a) Arunachal Pradesh (b) Mizoram
(c) Jammu and Kashmir (d) Haryana
87. 'The Third Window' is a term associated with:
- (a) IMF (b) OAE
(c) ECAFE (d) World Bank
88. The concept of 'Sales Tax' as a source of revenue for states was the innovation of:
- (a) K. Kamaraj (b) C. Rajagopalachari
(c) Morarji Desai (d) Sir R.K. Shanmukham Chetty
89. Poverty Line means:
- (a) Demarcation line between the rich and the poor
(b) Lowest level in the ladder of economic prosperity
(c) Stage at which there is a levelling down between the rich and the poor
(d) Minimum level of per capita consumer expenditure
90. The concept of 'Rolling Plan' in India started with the:
- (a) Third Plan (b) Fourth Plan
(c) Fifth Plan (d) Sixth Plan
91. National Income of a country is also known as:
- (a) Gross National Product (GNP) (b) Gross Domestic Product (GDP)
(c) Net National Product (NNP) (d) Net Domestic Product (NDP)
92. Who has called the multipurpose river valley projects 'the temples of modern India'?
- (a) Indira Gandhi (b) Narendra Modi
(c) Jawaharlal Nehru (d) Atal Bihari Vajpayee
93. The UN Annual Human Development Report is the brainchild of:
- (a) Amartya Sen (b) Milton Friedman
(c) Mahbub-Ul-Haq (d) Paul Krugman

94. Parallel economy refers to:
(a) Traditional economy (b) Black money economy
(c) Agriculture based economy (d) Socialist economy
95. Who presented the first budget of independent India?
(a) Dr. John Matthai (b) Dr. C. Deshmukh
(c) R.K. Shanmukham Chetty (d) T.T. Krishnamachari
96. Indian Currency is a legal tender in:
(a) Bangladesh (b) Bhutan
(c) Pakistan (d) Myanmar
97. Which among the following banks has become the first Indian bank to list on the New York Stock Exchange?
(a) IDBI (b) UTI Bank
(c) ICICI (d) Corporation Bank
98. The founder of YMCA was:
(a) Gregory Peck (b) Lord Mountbatten
(c) Sir George Williams (d) Ramsay Macdonald
99. Which university annually presented the Pulitzer prizes?
(a) Oxford University (b) Columbia University
(c) Cambridge University (d) Yale University
100. Montreal Protocol relates to:
(a) Protection of Whales (b) Protection of Wildlife
(c) Protection of Ozone Layer (d) Nuclear Weapons

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