

# MIZORAM PUBLIC SERVICE COMMISSION

## GENERAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF INSPECTOR UNDER EXCISE & NARCOTICS DEPARTMENT GOVERNMENT OF MIZORAM. FEBRUARY, 2021

### GENERAL STUDIES PAPER - III

Time Allowed : 2 hours

Full Marks : 200

*All questions carry equal marks of 2 each.*

*Attempt all questions.*

- In the field of space technology, India has demonstrated during 1994, her capability to
  - design advance intercontinental ballistic missile warning systems
  - launch geo-stationary satellites
  - design advanced satellite imaging technology
  - launch lunar mission Chandrayaan-1
- India's fastest supercomputers Pratyush and Mihir can perform at a maximum speed of
  - 6.8 PetaFlops
  - 6.4 PetaFlops
  - 8.4 PetaFlops
  - 4.8 PetaFlops
- The first chairperson of ISRO (Indian Space Research Organization) was
  - Satish Dhawan
  - U. R. Rao
  - Jawaharlal Nehru
  - Vikram Sarabhai
- On August 15, 2018, PM Narendra Modi announced that
  - India will send astronauts into space by 2022 on the new Gaganyaan spacecraft
  - India will be able to build its first multi wavelength space observatory by 2020.
  - India will be able to launch her second Moon mission Chandrayaan-2 by December, 2019.
  - India will be able to complete her first strategic missile defence system known as Aditya by 2024.
- Cryogenics technology find application in
  - surgery, magnetic levitation and telemetry
  - space travel, surgery and telemetry
  - quantum computers, space travel and magnetic levitation
  - telemetry, quantum computers and space travel
- For reproducing sound, a compact disc audio player uses a
  - quartz crystal
  - titanium crystal
  - laser beam
  - barium titanate ceramic
- Consider the following statements
  - India launched its first full-fledged Meteorological Satellite (METSAT) in September, 2002.
  - For the first time, the space vehicle PSLV C-4 carried a payload of more than 1000 kg into a geosynchronous orbit

Which of the statement (s) given above is/ are correct?

- Only (i)
- Only (ii)
- Both (i) and (ii)
- Neither (i) nor (ii)

8. Consider the following statements

- (i) Smart card is a plastic card with an embedded microchip
- (ii) Digital technology is primarily used with new physical communication medium such as satellite and fibre optics transmission
- (iii) A digital library is a collection of documents in an organized electronic form available on the internet only

Which of the statement (s) given above is/ are correct?

- (a) Only (iii)
- (b) Both (i) and (ii)
- (c) Both (ii) and (iii)
- (d) All of these

9. Consider the following statements

- (i) In November 2006, DRDO successfully conducted the interception test using Prithvi-II missile.
- (ii) Prithvi-II missile is a surface to air missile and can be deployed to guard the metros against air attacks.

Which of the statement (s) given above is/ are correct?

- (a) Only (i)
- (b) Only (ii)
- (c) Both (i) and (ii)
- (d) Neither (i) nor (ii)

10. Mobile Metallic Ramp (MMR), which DRDO handed over to Indian Army on 20<sup>th</sup> August, 2019 was designed and developed at

- (a) Centre for Air Borne System, Bangalore
- (b) Centre for Military Airworthiness & Certification, Bangalore
- (c) Centre for Fire, Explosive and Environment Safety, Delhi
- (d) Combat Vehicles Research & Development Estt., Chennai

11. From which one of the following did India buy the Barak anti-missile defence systems?

- (a) Israel
- (b) Russia
- (c) Japan
- (d) France

12. The main focus of recently launched Interdisciplinary Centre for Energy Research includes

- (a) Development of next-generation solar photovoltaic cell only
- (b) Both solar photovoltaic cell and bio-fuels
- (c) Novel energy storage technologies only
- (d) Next-generation solar photovoltaic cell, novel energy storage technologies and bio-fuels

13. For deployment of drones for mapping the country, Survey of India has already signed agreements (as of 16<sup>th</sup> September, 2019) with districts in

- (a) Delhi, Telangana and Maharashtra
- (b) Karnataka, Delhi and Maharashtra
- (c) Haryana, Karnataka and Maharashtra
- (d) West Bengal, Telangana and Haryana

14. The first Indian company to offer communication services to the maritime sector in Indian waters is

- (a) Nelco
- (b) HCIL
- (c) Reliance
- (d) BSNL

15. Consider the following statements regarding Global Antimicrobial Resistance (AMR) Research

- (i) Launched in May 2018 on the sidelines of 71<sup>st</sup> session of World Health Assembly
- (ii) India is yet to become a member

- (a) Only (i)
- (b) Only (ii)
- (c) Both (i) and (ii)
- (d) Neither (i) nor (ii)

16. Name of the recently launched Multilingual Mobile App in India is

- (a) Crop Residue Management
- (b) Crop Distribution Machinery
- (c) CHC Farm Machinery
- (d) Crop Insurance Monitoring

17. The theme of first Mobile Science Exhibition held in 1965 was
- (a) Our Familiar Electricity (b) Mathematics  
(c) Hand On Science (d) Our Senses
18. India's Long Range Surface-to-Air Missile (LRSAM) was developed by DRDO in collaboration with
- (a) Israel Aerospace Industries (b) Russian Defence Industries  
(c) Lockheed Martin (d) THAAD missile defence system
19. Consider the following statements
- (i) National Institute of Ocean Technology will launch Samudrayaan project by 2021-22 to explore the deep sea region  
(ii) It is a pilot project of Union Ministry of Earth Sciences for deep ocean mining of rare minerals
- Which of the following statement (s) is/are correct?
- (a) Only (i) (b) Only (ii)  
(c) Both (i) and (ii) (d) Neither (i) nor (ii)
20. Researchers from which of the following institutes developed a process to get bone implant material from eggshells
- (a) IIT Hyderabad and Dr. B.R. Ambedkar National Institute of Technology, Jalandhar  
(b) IIT Madras and Dr. B.R. Ambedkar National Institute of Technology, Jalandhar  
(c) Hyderabad Central University and IIT Hyderabad  
(d) IIT Kanpur and BHU
21. In 1973, a crater on moon was named after
- (a) Satish Dhawan (b) Subramaniam Chandrasekar  
(c) Hargobind Khorana (d) Vikram Sarabhai
22. Consider the following statements
- (i) ICMR National Institute of Immunohaematology has developed a cost effective Point of Care rapid diagnostic test for genetic disorders  
(ii) This is World's first Point-of-Care test for specific diagnosis of any common bleeding disorder
- Which of the following statement (s) is/are correct?
- (a) Only (i) (b) Only (ii)  
(c) Both (i) and (ii) (d) Neither (i) nor (ii)
23. According to recently published genetic study on Lakshadweep Island's natives
- (a) Natives of the island are descendent of ancient people like Andamanese and Australian aboriginals  
(b) Majority of human ancestry in the island are largely derived from South Asia  
(c) Majority of human ancestry in the island are largely derived from East Eurasia  
(d) Majority of human ancestry in the island are largely derived from South Africa
24. Scientific name of Asiatic lion is
- (a) Panthera leo azandica (b) Panthera leo massaica  
(c) Panthera leo persica (d) Panther leo krugeri
25. The mission of Defence Research Laboratory (DRL), Tezpur, the only DRDO laboratory in NE India includes
- (a) To excel in high altitude and agro-animal research in cold arid regions  
(b) To design, develop and evaluate; safe, nutritious and convenience food to meet the needs of Services and spin off to civil application  
(c) To develop technologies unique to local environment in the field of health and hygiene and judicious utilization of local resources for the benefit of the armed forces  
(d) To carry out design, development and evaluation of state of the art Life Support and Biomedical systems

26. TIFR recently found that monoamine neurotransmitter known as Serotonin may help treat neurological decline. The chemical name of the compound is
- (a) 5-hydroxytryptamine (b) Epinephrine  
(c) Triiodothyronine (d) Polymerase
27. MERA India is a program with an aim of eliminating
- (a) Measles (b) Malaria  
(c) HIV (d) Tuberculosis
28. The Prime Minister's Science, Technology and Innovation Council (PM-STIAC) missions include
- (a) Artificial Intelligence and High altitude exploration  
(b) Electric vehicles and Deep Ocean Exploration  
(c) Quantum Frontier and Space Technology  
(d) Genome sequencing and Natural Language Translation
29. Google launches Bolo to tutor children to read
- (a) Hindi only (b) English only  
(c) Bengali only (d) Both Hindi and English
30. Smart Garbage Bins, which is equipped with IOT enabled Gazelle sensors that can transmit signals to the collection vehicle about the fill-up position was recently launched in India by
- (a) Steel Authority of India Ltd (b) Infosys  
(c) HCL Technologies (d) Reliance Industries Limited
31. West Nile Virus is a viral infection resulting in
- (a) Respiratory disease (b) Genetic disorder  
(c) Neurological disease (d) Skin inflammation
32. Recently, India's indigenously developed Pinaka Guided Weapons System was successfully test fired at
- (a) Indian ocean (b) Pokhran dessert  
(c) Satpura range (d) Bay of Bengal
33. Mission Shakti is
- (a) name of a project for anti-satellite missile  
(b) a scheme launched by PM Narendra Modi to eliminate measles virus in the country  
(c) one the Digital India initiatives program  
(d) both (b) and (c)
34. Indian team that won AIAA Neil Amstrong Best Design Award at NASA Annual Rover Challenge is
- (a) a team of scientists led by IIT Kanpur professor  
(b) a team from Mukesh Patel School of Technology Management and Engineering  
(c) a team from Lovely Professional University, Punjab  
(d) a team from KIET Group of Institutions in Ghaziabad, Uttar Pradesh
35. Deen Dayal Upadhyaya Gram Jyoti Yojana is
- (a) one of the flagship programmes of the Power Ministry designed to provide continuous power supply to the entire rural India  
(b) is the Digital India initiative plans to enable citizens and merchants to undertake real time digital transactions  
(c) is a scheme that aims to keep farmers abreast with the crop prices and discourage them to carry-out distress sale  
(d) is a campaign aims at ensuring girls are born, nurtured and educated without discrimination

36. To enhance research in the field of Ayurveda in order to give scientific validation All India Institute of Ayurveda signed MoU with
- (a) IIT Kharagpur (b) IIT Madras  
(c) IIT Jodhpur (d) IIT Delhi
37. Horizon 2020 is
- (a) a joint research programme between India and EU to develop a next generation influenza vaccine  
(b) one of the ISRO mission for radio wave imaging technology  
(c) CSIR scheme for enhancing agricultural production in hilly areas  
(d) a DST scheme for funding research in next generation technology
38. India's first biofuel flight powered by jatropha seeds took place between
- (a) Dehradun and Ladakh (b) Shimla and Haryana  
(c) Shimla and Dehradun (d) Delhi and Dehradun
39. The biggest pre-Colonial village settlement in Mizoram was:
- (a) Dungleang (b) Buangtlang  
(c) Selesih (d) Tualte
40. Who among the following had to pay more *fathang* (Paddy tax) to the chief?
- (a) Zalen (b) Ramhual  
(c) Khawnbawl Upa (d) Val Upa
41. A *Bawi* who surrendered himself to his enemy in order to save his life was called:
- (a) Tukluh Bawi (b) Chemsen Bawi  
(c) Inpuichhung Bawi (d) Bawi Bengverh
42. Who among the following was an Assistant to *Sadawi*?
- (a) Bawlpu (b) Puithiam  
(c) Tlahpawi (d) Rahsi
43. The big peeled log laid to cover the entire breadth of *Zawlbuk* entrance was called:
- (a) Bahzar (b) Bawhbel  
(c) Namthlak (d) Pawmpual
44. Two groups of society among the Mara who did not have their own chief clan were:
- (a) Tlongsai and Hawthai (b) Zeuthang and Sabeu  
(c) Liailai and Heima (d) Sabeu and Hawthai
45. Prior to the advent of the British, who owned the land in Mizoram?
- (a) The people (b) The Chiefs  
(c) Ramhual and Zalen (d) Val Upa
46. The first Mizo Christian Hymn Book published in the year 1899 contains
- (a) 10 hymns (b) 18 hymns  
(c) 19 hymns (d) 20 hymns
47. Who was the first Political Officer of the North Lushai Hills?
- (a) T.H. Lewin (b) C.S. Murray  
(c) Bertram S. Carey (d) Herbert Browne
48. Who among the following was called *Tarmita*?
- (a) C.S. Murray (b) J. Shakespear  
(c) Mac Donald (d) A.G. McCall

49. "The house of *Lal* is a harbor of refuge" - who wrote this?  
(a) T.H. Lewin (b) N.E. Parry  
(c) J.M. Lloyd (d) Dr. Peter Fraser
50. During the colonial period, who was responsible for the preparation of vital statistics of the village?  
(a) The Chief (b) The Chaprasi  
(c) The Circle Interpreter (d) Khawnbawl Upa
51. The standard House Tax introduced by the British in Mizoram was:  
(a) Rupees Two per house (b) Rupees Four per house  
(c) Rupees Six per house (d) Rupee One per house
52. Fines imposed by the Mizo chiefs upon the guilty party on civil or criminal cases were known as:  
(a) Sachhiah (b) Salam  
(c) Fathang (d) Tukluh
53. Who among the Mizo chiefs last surrendered himself to the British?  
(a) Vanphunga (b) Kalkhama  
(c) Kairuma (d) Bengkhuaia
54. The Army Bearer corps, in which a few Mizo young men took part during World War-I was also called:  
(a) Florence Nightingale's Corps (b) St. John's Ambulance Corps  
(c) General Slim's Army (d) The Sepoys
55. The Lakher Pioneer Mission was founded in 1905 by:  
(a) J.H. Lorrain (b) R.A. Lorrain  
(c) F.W. Savidge (d) D.E. Jones
56. The first revival movement among the Christians in Mizoram took place in the year:  
(a) 1894 (b) 1903  
(c) 1906 (d) 1909
57. The first two Mizo students taught by J.H. Lorrain and F.W. Savidge were:  
(a) Khuma and Khara (b) Suaka and Thangphunga  
(c) Thangi and Zamani (d) Suakpuilala and Kalkhama
58. Who among the following was the first missionary doctor to Mizoram?  
(a) Dr. Peter Fraser (b) Dr. John Williams  
(c) Dr. G.P. Roberts (d) Dr. C.C. Chesterton
59. How many Mizo young men joined the Labour Battalion of the British force during World War-I?  
(a) 2000 (b) 2100  
(c) 3000 (d) 3500
60. The Lushai Scouts, a guerilla unit, established during World War-II in February, 1944 was also called:  
(a) Hnam Sipai (b) Lucknow Sipai  
(c) Biate Sipai (d) Sipai Lem
61. The first known organization formed by the Mizos was:  
(a) Young Lushai Association (b) Lungleh Association  
(c) The Lushai Students' Association (d) Mizo Hmeichhe Insuihkhawm Pawl
62. The first political party in Mizoram, the Mizo Union came into existence in:  
(a) 1946 (b) 1947  
(c) 1948 (d) 1950

63. The name of the political party which was formed next to the Mizo Union is:  
(a) United Mizo Freedom Organization (b) All Party Hills Leaders' Conference  
(c) Eastern Indian Tribal Union (d) Indian National Congress
64. When was the Mizo National Front (MNF) party formed?  
(a) 1961 (b) 1963  
(c) 1965 (d) 1966
65. Which of the following is in the correct order?  
(a) Pawlkut thla, Ramtuk thla, Vau thla, Tau thla  
(b) Pawlkut thla, Vau thla, Tau thla, Tomir thla  
(c) Ramtuk thla, Tomir thla, Nikir thla, Thlazing  
(d) Thlazing, Mimkut thla, Pawlkut thla, Vau thla
66. *Favang* falls within the months of:  
(a) November – December (b) January – February  
(c) August – September (d) September – October
67. The “Mizo Accord” that ended *Rambuai* in Mizoram was signed on:  
(a) 2<sup>nd</sup> February, 1987 (b) 25<sup>th</sup> June, 1987  
(c) 25<sup>th</sup> June, 1986 (d) 16<sup>th</sup> August, 1986
68. The first Chairman of the newly-constituted Lokayukta in Mizoram is:  
(a) Lalnunmawia Chuaungo (b) Prof. Jagdish Mukhi  
(c) Rev. Zosangliana Colney (d) C. Lalsawta
69. The two products from Mizoram that recently received Geographical Indication (GI) tag are:  
(a) Tawlhlohpuan and Mizo Puanchei (b) Ngotekherh and Pawnpui  
(c) Hnahlan Wine and Champ-wine (d) Turmeric and Ginger
70. The Mizoram University (MZU) was established in:  
(a) 2000 (b) 2001  
(c) 2002 (d) 2003
71. Total number of other Indian states that share their borders with Mizoram is:  
(a) Three (b) Five  
(c) Seven (d) Eight
72. Mawmrang Tlang is located in which district?  
(a) Aizawl (b) Khawzawl  
(c) Saitual (d) Mamit
73. Which is the state animal of Mizoram?  
(a) Rhino (b) Blackbuck  
(c) Wild-Bison (d) Serow
74. Mizoram covers the total area of:  
(a) 21,087 square kilometer (b) 9,88,625 square kilometer  
(c) 39,567 square kilometer (d) 28,907 square kilometer
75. Mr. C. Lalremsanga, the first Olympiad from Mizoram was recently awarded:  
(a) Padma Shree (b) Padma Vibhusan  
(c) Dhyan Chand Award (d) India's Jewel Award

**Directions to Questions No. 76 & 83 :** *What number should come next in the following series?*

76. 0.9, 1.6, 2.3, 3.0, \_\_\_\_\_  
(a) 3.2 (b) 3.5  
(c) 3.7 (d) 4.4
77. 3, 10, 17, 24, 31, 38, \_\_\_\_\_  
(a) 47 (b) 45  
(c) 44 (d) 42
78. 37, 35, 30, 28, 23, \_\_\_\_\_  
(a) 21 (b) 20  
(c) 19 (d) 18
79. 3, 4, 7, 8, 11, 12, \_\_\_\_\_  
(a) 13 (b) 16  
(c) 14 (d) 15
80. 45, 42, 40, 38, 35, 33, \_\_\_\_\_  
(a) 34 (b) 33  
(c) 31 (d) 30
81. 568, 284, 292, 146, 154, 77, \_\_\_\_\_  
(a) 69 (b) 39  
(c) 93 (d) 85
82. 6, 4, 5, 11, 39, \_\_\_\_\_  
(a) 128 (b) 189  
(c) 226 (d) 324
83. 14, 2, 12, 8, 10, 14, 8, \_\_\_\_\_, \_\_\_\_\_  
(a) 6, 20 (b) 4, 18  
(c) 4, 20 (d) 10, 16
84. Which word does NOT belong with the others?  
(a) inch (b) ounce  
(c) centimeter (d) yard
85. Which word does NOT belong with the others?  
(a) noun (b) preposition  
(c) punctuation (d) adverb
86. Which word does NOT belong with the others?  
(a) book (b) index  
(c) glossary (d) chapter

**Directions to Questions No. 87 & 88 :** *In each of the following questions two statements are given and these statements are followed by two conclusions numbered (1) and (2). Read the conclusions and then decide which of the given conclusions logically follows from the two given statements, disregarding commonly known facts.*

Give answer:

- (a) If only (1) conclusion follows
- (b) If only (2) conclusion follows
- (c) If either (1) or (2) follows
- (d) If neither (1) nor (2) follows





94. Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures

○	⊙	△	△ □	□
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Answer Figures

□ □	□ △	△ △	□ ▽
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(A) (B) (C) (D) (E)                      (1) (2) (3) (4)

(a) 1    (b) 2  
(c) 3    (d) 4

95. Select a suitable figure from the four alternatives that would complete the figure matrix.

⊕	⊖	⊙
⊖	⊙	⊕
⊗	⊕	?

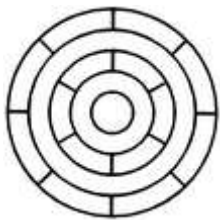
⊖	⊕	⊙	⊗
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(1) (2) (3) (4)

- (a) 1    (b) 2  
(c) 3    (d) 4

D. Abstract Reasoning Tests:

96. What is the minimum number of different colours required to paint the given figure such that no two adjacent regions have the same colour?



- (a) 3    (b) 4  
(c) 5    (d) 6

97. A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting?

- (a) Between B and D                      (b) Between B and C  
(c) Between E and D                      (d) Between C and E

**Direction for Questions No. 98 - 100 :** The classification of 100 students based on the marks obtained by them in *Physics and Chemistry* in an Examination are presented below:

Subject	Marks out of 50				
	40 and above	30 and above	20 and above	10 and above	0 and above
Physics	9	32	80	92	100
Chemistry	4	21	66	81	100
Average (Aggregate)	7	27	73	87	100

- 98.** How many students can pursue higher studies in Physics, if at least 60% marks in Physics are required for pursuing higher studies?
- (a) 27 (b) 32  
(c) 34 (d) 41
- 99.** The number of students scoring less than 60% marks in aggregate is?
- (a) 13 (b) 27  
(c) 93 (d) 27
- 100.** The percentage of number of students getting at least 60% marks in Chemistry over those getting at least 40% marks in aggregate, is approximately?
- (a) 21% (b) 27%  
(c) 29% (d) 32%

\* \* \* \* \*