

2024 GS Prelims (PAPER - 1)

1. International Day for the preservation of ozone layer is observed on

- [A] 14th September
- [B] 26th September
- [C] 10th September
- [D] 16th September

2. When did the Constituent Assembly enact and adopt the Constitution of India?

- [A] 13th December, 1946
- [B] 15th August, 1947
- [C] 26th November, 1949
- [D] 26th January, 1950

3. Which of the following provisions is **not** covered under 'Special provision with respect to the State of Nagaland' as per Article 371A of the Constitution of India?

- [A] Religious or social practices of the Nagas
- [B] Naga customary law and procedure
- [C] Border management with the neighboring States
- [D] Ownership and transfer of land and resources

4. Which of the following is not listed in Schedule of the the Twelfth Constitution of India?

- [A] Fire services
- [B] Urban forestry, protection of the environment and promotion of ecological aspects
- [C] Safeguarding the interests of weaker sections of society, including the handicapped and mentally retarded
- [D] Urban police system, controlling the drugs and narcotics and safeguarding the interests of the youths

5. Which of the following was **not** initiated by M. K. Gandhi?

- [A] Harijan
- [B] The Bengal Gazette
- [C] Young India
- [D] The Indian Opinion

6. Arrange the following classical languages chronologically as per the years of their 'classical status':

- (i) Sanskrit
- (ii) Kannada

(iii) Tamil

(iv) Malayalam

- [A] (i), (ii), (iii), (iv)
- [B] (iii), (i), (ii), (iv)
- [C] (iii), (i), (iv), (ii)
- [D] (i), (ii), (iv), (iii)

7. The term 'Black Coat Syndrome', recently seen in news, is related to

- [A] the stress levels among ordinary citizens due to culture of adjournments in courts
- [B] rise in tension level in hospitals
- [C] apprehensions bureaucracy related to
- [D] a kind of mental illness

8. Consider the following statements regarding Agartala-Akhaura Rail Link:

- (i) It is a rail link connecting Northeast India with Bangladesh.
 - (ii) It was inaugurated in 2017 by Prime Minister Narendra Modi and Bangladesh PM Sheikh Hasina.
 - (iii) The project will promote tourism, trade and people to people exchanges.
 - (iv) Bhutan and Nepal are also a part of the project.
- Which of the above statements is/are **correct**?
- [A] (i) only
 - [B] (i) and (iii) only
 - [C] (i), (ii) and (iii) only
 - [D] All of the above

9. Who was the Chairman of the High-level Committee on Simultaneous Elections (One Nation-One Election) constituted in 2023?

- [A] Jagdeep Dhankhar
- [B] Pranab Mukherjee
- [C] Ram Nath Kovind
- [D] Venkaiah Naidu

10. Arrange the countries chronologically as per their rank in Human Development Index 2024:

- (i) India
 - (ii) Sri Lanka
 - (iii) China
 - (iv) Bangladesh
 - (v) Bhutan
- [A] (i), (ii), (iii), (iv), (v)
 - [B] (ii), (ii), (v), (iv), (i)
 - [C] (iii), (i), (ii), (v), (iv)
 - [D] (ii), (iii), (i), (v), (iv)

11. Sikkim became an Associate State of the Indian Union through

- [A] the Constitution (7th Amendment) Act, 1956
 [B] the Constitution (36th Amendment) Act, 1975
 [C] the Constitution (35th Amendment) Act, 1974
 [D] the Constitution (39th Amendment) Act, 1978

12. Which of the following is **not** a report published by World Economic Forum?

- [A] Energy Transition Report
 [B] Global Gender Gap Report
 [C] Global Travel Tourism Report
 [D] Human Development Index Report

13. What was the theme of the 'World Environment Day' 2024?

- [A] Only one earth
 [B] Beat plastic pollution
 [C] Time for nature
 [D] Land restoration, desertification and drought resilience

14. Arrange the following 'Presidents of USA' chronologically:

- (i) Ronald Reagan
 (ii) Bill Clinton
 (iii) George H. W. Bush
 (iv) George W. Bush

- [A] (i), (iii), (iv), (ii)
 [B] (i), (iv), (iii), (ii)
 [C] (i), (ii), (iii), (iv)
 [D] (i), (iii), (ii), (iv)

15. Who among the following was not a part of 'Lal-Bal-Pal' indicating the 'extremist' faction of the Indian National Congress in the early 20th century?

- [A] Lala Hardayal
 [B] Lala Lajpat Rai
 [C] Bal Gangadhar Tilak
 [D] Bipin Chandra Pal

16. Match **List-I** with **List-II** and select the **correct** answer using the code given below the list.

List-I (Title of the book)	List-II (Author)
(i) On the Origin of Species	1. Thomas Henry Huxley
(ii) Evidence as to Man's Place in Nature	2. V. G. Childe

(iii) Education in Ancient India	3. Charles Darwin
(iv) What Happened in History	4. A. S. Altekar

Code:

	(i)	(ii)	(iii)	(iv)
[A]	3	1	4	2
[B]	1	2	3	4
[C]	2	3	1	4
[D]	3	2	4	1

17. The famous physician during Buddha's time was

- [A] Charaka
 [B] Jivaka
 [C] Kautilya
 [D] Nachiketa

18. To which period of Indian history did Aryabhatta and Varahamihira (Scientist and Mathematician respectively) belong?

- [A] Pala period
 [B] Shunga-Kushana period
 [C] Maurya period
 [D] Gupta period

19. Who was the author of the book Tarikh-i-Firoz Shahi?

- [A] Ziauddin Barani
 [B] Al-Biruni
 [C] Abul Fazl
 [D] Minhaj-i-Siraj

20. Who introduced the Iqta system?

- [A] Shamsuddin Iltutmish
 [B] Ghiyasuddin Balban
 [C] Muhammad Ghori
 [D] Qutub-ud-din Aibak

21. Match List-I with List-II and select the correct answer using the code given below the list.

List-I (Title of the book)	List-II (Author)
(i) Ain-i-Akbari	1. Gulbadan Begum
(ii) The Rihla	2. Abul Fazl
(iii) Humayun-Nama	3. Ibn Battuta
(iv) Rajatarangini	4. Kalhana

Code:

	(i)	(ii)	(iii)	(iv)
[A]	1	2	3	4

- [B] 2 3 1 4
 [C] 3 1 4 2
 [D] 2 4 3 1

22. Who was the founder of the secret society Abhinav Bharat?

- [A] Ganesh Savarkar
 [B] Damodar Chapekar
 [C] Naren Bhattacharjee
 [D] Jatin Mukherjee

23. Who was mainly responsible for introducing the Ryotwari system in Madras?

- [A] Thomas Munro
 [B] John Lawrence
 [C] Macartney
 [D] Elphinstone

24. The Whitley Commission was concerned with

- [A] public health
 [B] reorganization of Civil Service
 [C] labour
 [D] education

25. Consider the following statements on Arunachal Pradesh:

- (i) Arunachal Pradesh is the second largest among the north-eastern States of India.
 (ii) Based on the settlements, Arunachal Pradesh is divided into four cultural zones.

Which of the statements given above is/are **correct**?

- [A] (i) only
 [B] (ii) only
 [C] Both (i) and (ii)
 [D] Neither (i) nor (ii)

26. Match the following International Boundaries with the countries:

(Boundary Lines)	(Countries)
(i) Radcliffe	India and Pakistan
(ii) Durand	India and China
(iii) McMahon	Pakistan and Afghanistan

Which of the above is/are **correct**?

- [A] (i) only
 [B] (i) and (ii) only
 [C] (i) and (iii) only
 [D] (i), (ii) and (iii)

27. Which of the following passes is **not** in Arunachal Pradesh?

- [A] Bum La
 [B] Darma La
 [C] Bomdi La
 [D] Yonggyap La

28. Which of the following pairs is/are **correctly** matched?

[Census Year]	[India's Population Growth Rates (In Percentage)]
(i) 1971-1981	24-66
(ii) 1981-1991	23-87
(iii) 1991-2001	21-54
(iv) 2001-2011	17-64

- [A] (i) and (ii) only
 [B] (i), (ii) and (iii) only
 [C] (ii) and (iii) only
 [D] (i), (ii), (iii) and (iv)

29. Consider the following Particularly Vulnerable Tribal Groups (PVTGs) and their region as per the Ministry of Tribal Affairs, Government of India (2024):

(PVTGs)	(States/UTs)
(i) Reang	Tripura
(ii) Maram	Manipur
(iii) Jarawa	Andaman and Nicobar Islands
(iv) Toto	Sikkim

Which of the above pairs is/are **correctly** matched?

- [A] (i) and (ii) only
 [B] (iii) only
 [C] (i), (ii) and (iii) only
 [D] (i), (ii), (iii) and (iv)

30. Consider the following statements:

- (i) Almost all the deserts are confined within the 15°-30° latitude north and south of the equator.
 (ii) Deserts lie on the western part of the continents, where trade-winds are off-shore.
 (iii) Yardangs are important depositional features in the deserts.

Which of the above statements are **correct**?

- [A] (i) and (ii) only
 [B] (ii) and (iii) only
 [C] (i) and (ii) only
 [D] (i), (ii) and (iii)

31. As per Census of India, 2011, Decadal Population Growth Rate (2001-2011) of Arunachal Pradesh is

- [A] 26-0
- [B] 17-1
- [C] 27.9
- [D] 14-8

32. Consider the following statements with regard to 'Davisian model of geographical cycle':

- (i) Landforms are the evolved products of the interactions of endogenetic and exogenetic forces.
- (ii) Streams erode their valleys rapidly downward until the graded condition is achieved.
- (iii) There is a short-period rapid rate of upliftment in land mass.

Which of the above statements is/are **correct**?

- [A] (i) only
- [B] (ii) and (iii) only
- [C] (i), (ii) and (iii)
- [D] (iii) only

33. Consider the following pairs:

(Cyclone)	(Region)
(i) Typhoons	China Sea
(ii) Hurricanes	Caribbean Island
(iii) Tornadoes	USA
(iv) Willy Willies	Australia

Which of the pairs given above are **correct**?

- [A] (ii) and (iii) only
- [B] (iii) and (iv) only
- [C] (i), (ii) and (iv) only
- [D] (i), (ii), (iii) and (iv)

34. Consider the following pairs:

(Inland Waterways)	(Rivers system)
(i) National Waterway	1 Ganga-Bhagirathi-Hooghly River system
(ii) National Waterway	2 Brahmaputra River
(iii) National Waterway	3 Krishna River

Which of the pairs given above is/are **correctly** matched?

- [A] (i) and (ii) only
- [B] (ii) only
- [C] (i), (ii) and (iii)
- [D] (i) and (iii) only

35. Which one of the following is the Minor Industrial Region of India?

- [A] Bangalore-Tamil Nadu Region
- [B] Gurgaon-Delhi-Meerut Region
- [C] Bilaspur-Korba Region
- [D] Chota Nagpur Region

36. Consider the following pairs about local storms of hot weather season of India.

(Local Storms)	(Regions)
(i) Mango Shower	Kerala and coastal areas of Karnataka
(ii) Norwester	Bengal and Assam
(iii) Bardoli Chheerha	Maharashtra
(iv) Blossom Shower	Kerala

Which of the pairs given above are **correct**?

- [A] (i) and (iv) only
- [B] (ii) and (iii) only
- [C] (i), (ii) and (iv) only
- [D] (iii) and (iv) only

37. According to the Köppen's Climatic Classification (Regions), which of the following describes North-Eastern India?

- [A] Amw
- [B] E
- [C] Aw
- [D] Cwg

38. The Union Cabinet (2024) has recently approved the development of National Maritime Heritage Complex (NMHC) in which of the following States?

- [A] Odisha
- [B] Tamil Nadu
- [C] Kerala
- [D] Gujarat

39. Match the following Ramsar Sites of North East Indian States:

Ramsar Sites	States
(i) Deepor Beel	1. Tripura
(ii) Rudrasagar Lake	2. Assam
(iii) Pala Lake	3. Manipur
(iv) Loktak Lake	4. Mizoram

- | | | | | |
|-----|-----|------|-------|------|
| | (i) | (ii) | (iii) | (iv) |
| [A] | 2 | 1 | 4 | 3 |
| [B] | 1 | 2 | 4 | 3 |
| [C] | 4 | 1 | 2 | 3 |

[D] 4 2 1 3

40. According to which Article of the Indian Constitution, "No person shall be prosecuted and punished for the same offence more than once."?

- [A] Article 21(A)
- [B] Article 32(C)
- [C] Article 20(2)
- [D] Article 21(2)

41. Which Article of the Constitution of India guarantees citizens Right to Freedom of conscience and free profession, practice and propagation of religion?

- [A] Article 26
- [B] Article 24
- [C] Article 29
- [D] Article 25

42. Match the following:

(Nature of regional aspirations)	(States)
(i) Socio-religious identity	1. Nagaland and Mizoram
(ii) Linguistic identity	2. Jharkhand and Chhattisgarh
(iii) Regional imbalance	3. Punjab
(iv) Secessionist demands on tribal identity	4. Tamil Nadu

- | | | | | |
|-----|-----|------|-------|------|
| | (i) | (ii) | (iii) | (iv) |
| [A] | 2 | 4 | 1 | 3 |
| [B] | 1 | 2 | 4 | 3 |
| [C] | 3 | 4 | 2 | 1 |
| [D] | 3 | 1 | 4 | 2 |

43. Who had made a distinction between India as a fatherland (pitrabhumi) and India as the holy land (punyabhumi)?

- [A] Deendayal Upadhyay
- [B] Mahatma Gandhi
- [C] V. D. Savarkar
- [D] Gopal Krishna Gokhale

44. Who had formed Dravidian movement in Tamil Nadu?

- [A] E. V. Ramasamy 'Periyar'
- [B] M. Karunanidhi
- [C] C. Annadurai

[D] J. Jayalalithaa

45. Shah Commission was appointed in

- [A] 1975
- [B] 1965
- [C] 1977
- [D] 1989

46. Which of the following ideas did not form a part of the early phase of India's development policy?

- [A] Planning
- [B] Liberalisation
- [C] Cooperative farming
- [D] Land reforms

47. Which of the following is responsible for conducting elections for local bodies?

- [A] Election Commission of India
- [B] Chief Electoral Officer
- [C] State Election Commissioner.
- [D] As decided by the President of India

48. Kesavanand Bharati ruling came in the year

- [A] 1969
- [B] 1971
- [C] 1973
- [D] 1979

49. Under whose Chairpersonship was a Commission constituted to review the working of the Constitution of India?

- [A] Justice Hidaytullah
- [B] Justice J. S. Verma
- [C] Justice M. N. Venkatachaliah
- [D] Justice Sanjeev Verma

50. Which country's Constitution is known as 'Peace Constitution'?

- [A] German Constitution of 1919
- [B] Japanese Constitution of 1947
- [C] Italian Constitution of 1948
- [D] French Constitution of 1958

51. Who amongst the following argued that reordering of Hinduism wasn't possible without liberal principles?

- [A] Swami Dayananda Saraswati
- [B] V. D. Savarkar
- [C] Swami Vivekananda
- [D] Mahatma Gandhi

52. Which Article of the Directive Principles of the State Policy of the Constitution of India states that "the citizens, men and women equally, have the right to an adequate means of livelihood."?

- [A] Article 38(1)
[B] Article 39(a)
[C] Article 41
[D] Article 46

53. Match the following:

(Schedule)	(Subject)
(i) Schedule Tenth	1. Languages
(ii) Schedule Ninth	2. Union, State and Concurrent Lists
(iii) Schedule Eighth	3. Provisions regarding disqualification on ground of defection
(iv) Schedule Seventh	4. Article 31(B)

- | | | | | |
|-----|-----|------|-------|------|
| | (i) | (ii) | (iii) | (iv) |
| [A] | 3 | 4 | 1 | 2 |
| [B] | 4 | 2 | 1 | 3 |
| [C] | 3 | 2 | 1 | 4 |
| [D] | 3 | 1 | 2 | 4 |

54. Match the following:

(i) Charan Singh	1. Industrialization
(ii) P. C. Mahalanobis	2. Land reforms
(iii) K. N. Raj	3. Farmers
(iv) Verghese Kurien	4. Milk Cooperatives
(i) Charan Singh	1. Industrialization

- | | | | | |
|-----|-----|------|-------|------|
| | (i) | (ii) | (iii) | (iv) |
| [A] | 1 | 2 | 3 | 4 |
| [B] | 3 | 1 | 2 | 4 |
| [C] | 3 | 2 | 1 | 4 |
| [D] | 1 | 2 | 4 | 3 |

55. Which of the following Committees has recommended for the introduction of three-tier structure of PRI for the first time?

- [A] Ashok Mehta Committee
[B] Balwant Rai Mehta Committee
[C] Gadgil Committee
[D] L. M. Singhvi Committee

56. Which of the following country groups are there in G20?

- [A] European Union and ASEAN
[B] ASEAN and African Union
[C] European Union and African Union

[D] Euro Area and African Union

57. Which of the following is the development financial institution which came into being in 1982 with the purpose of addressing concern on institutional credit to agriculture and rural areas?

- [A] Grameen Bank
[B] National Bank for Agriculture and Rural Development (NABARD)
[C] National Cooperative Credit Union (NCCU)
[D] Rural Finance Corporation

58. Arrange the following events in a chronological order:

- (i) Introduction of Goods and Services Tax
(ii) Nationalization of Banks
(iii) New Economic Policy
(iv) Second Five-Year Plan

- [A] (iv), (i), (ii), (iii)
[B] (ii), (iv), (iii), (i)
[C] (ii), (iv), (i), (iii)
[D] (iv), (ii), (iii), (i)

59. Kisan Vikas Patra (KVP) is a deposit scheme in post offices which accepts a minimum amount of in a year. The maximum amount which can be deposited is

- [A] ₹1000, ₹10 lakh
[B] ₹1000, ₹5 lakh
[C] ₹10000, ₹10 lakh
[D] ₹1000, unlimited

60. Which of the following are the main greenhouse gases?

- [A] Oxygen, carbon dioxide, nitrogen
[B] Carbon dioxide, methane, nitrous oxide
[C] Carbon dioxide, oxygen, methane
[D] Carbon dioxide, methane, nitrogen

61. According to the recent data, the country which contributes the largest greenhouse emissions annually to the atmosphere, is

- [A] India
[B] China
[C] USA
[D] UK

62. Which of the following organizations has played an important role in improving the payment settlement network in India and has also played an important role in the introduction of RuPay cards?

- [A] National Securities Depositories Ltd.
- [B] UIDAI
- [C] National Payments Corporation of India
- [D] Central Securities Depositories Ltd.

63. Which of the following statisticians is well known for his work associated with the Second Five-Year Plan?

- [A] D. T. Lakdawala
- [B] Sukhamoy Chakraborty
- [C] P. C. Mahalanobis
- [D] P. R. Brahmananda

64. UPI stands for

- [A] United Payments of India
- [B] Unified Payments of India
- [C] Unified Payments Interface
- [D] Unified Payments on Internet

65. Along with India, which country initiated the International Solar Alliance in 2015?

- [A] Denmark
- [B] Switzerland
- [C] France
- [D] Germany

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70. Which of the following are the functions of an Ecosystem?

- (i) The flow of energy
 - (ii) The biogeochemical cycling of nutrients
 - (iii) Photosynthesis
 - (iv) Transpiration
- (A) (i) and (iv) only
(B) (ii) and (iii) only
(C) (i) and (ii) only
(D) (iii) and (iv) only

71. The features, aerial roots, salt tolerance and viviparous reproduction are common among which of the following types of forests?

- [A] Thorny forests
- [B] Deciduous forests
- [C] Mangrove forests
- [D] Coniferous forests

72. Which one of the following crops can be grown in the water parched areas?

- [A] Sugarcane
- [B] Rice
- [C] Sorghum
- [D] Cotton

73. Oxylophytes are a group of plants that can grow under

- [A] saline soil conditions
- [B] acidic soil conditions
- [C] sand and gravel
- [D] marshy soil

74. The most important strategy to conserve biodiversity along with the human life is

- [A] Botanical Garden
- [B] Biosphere Reserve
- [C] National Park
- [D] Wildlife Sanctuary

75. The State bird of Arunachal Pradesh is
[A] Bucerus bicornis
[B] Ithaginis cruentus
[C] Asarcornis scutulata
[D] Pavo cristatus
76. The Nagoya Protocol, a supplementary Protocol to the Convention on Biodiversity adopted in 2010, is about
[A] fair and equitable sharing of benefits arising out of use of genetic resources
[B] safe use and transport of the living modified organisms
[C] trans-border movement of the endangered species.
[D] prohibitions against illegal trade of animal products
77. Which one of the following States of India has no National Park?
[A] Kerala
[B] Uttar Pradesh
[C] Gujarat
[D] Punjab
78. The concept of Biodiversity Hotspot was given by
[A] Madhav Gadgil
[B] Norman Myers
[C] Jane Goodall
[D] Salim Ali
79. Based on the Global Warming Potential (GWP) index developed by the IPCC, which one of the following is the most potent greenhouse gas?
[A] Carbon dioxide
[B] Methane
[C] Nitrous oxide
[D] Sulphur hexafluoride
80. Mission LIFE, Lifestyle for Environment, was introduced by the Prime Minister of India Narendra Modi during which UNFCCC, COP meeting?
[A] COP-28, Dubai
[B] COP-26, Glasgow
[C] COP-27, Sharm-El-Sheikh
[D] COP-21, Paris

81. Which ruler of Assam, before the 4th century, was involved in the Mahabharata War?
[A] Narakasura
[B] Bhagadatta
[C] Bana
[D] Mahiranga Danava
82. The language of the Khasis belongs to the
[A] Tibeto-Burman
[B] Aryan
[C] Mon-Khmer (Austro-Asiatic)
[D] Indo-European
83. The myth of Jamadagni's son committing matricide is associated with which of the following places?
[A] Parshuram Kund
[B] Malinithan
[C] Paya Tamreswari
[D] Naksa Parbat
84. The Khasi Rebellion in 1830 was led by
[A] Tirot Singh
[B] Kiang Nongbah
[C] Bar Manik
[D] Raja Ram Singh
85. The Achi Lhamo dance of Tawang is a creation of the Tibetan
[A] Tengyur
[B] Kangyur
[C] Mahabharata
[D] Ramayana
86. The McMahon Line in 1914 was signed among Britain, China and
[A] Russia
[B] France
[C] Burma
[D] Tibet
87. What was the sequence of the annexation of the Naga Hills by the British?
(i) 1875
(ii) 1889
(iii) 1904
(iv) 1866
[A] (i), (ii), (iii) and (iv)
[B] (ii), (i), (ii) and (iv)
[C] (iii), (ii), (iv) and (i)

[D] (iv), (i), (ii) and (iii)

88. During World War II, in the 'South East Asian Frontier' of War, the last battle with the Japanese was

- [A] the Battle of Imphal
- [B] the Fall of Singapore
- [C] the Fall of Burma
- [D] the Battle of Kohima

89. Which one of the following cells **do not** have the nucleus?

- [A] Red blood corpuscles
- [B] Lymphocytes
- [C] Monocytes
- [D] White blood corpuscles

90. In which of the following organisms, nuclear membrane is absent?

- [A] Amoeba
- [B] Paramecium
- [C] Escherichia coli
- [D] Yeast cells

91. The compound eye is present in which of the following organisms?

- [A] Apple snail
- [B] Jellyfish
- [C] Turtle
- [D] Honey bee

92. Wings of butterflies, bats and birds are

- [A] analogous
- [B] homologous
- [C] orthologous
- [D] paralogous

93. The series of lines present in the visible region of the hydrogen spectrum is

- [A] Lyman
- [B] Balmer
- [C] Paschen
- [D] Brackett

94. Long form of the periodic table is based on the properties as a function of

- [A] atomic size
- [B] atomic mass
- [C] atomic radius
- [D] atomic number

95. The electronic configuration ns^2np^5 belongs to

- [A] alkali metals
- [B] lanthanides
- [C] chalcogens
- [D] halogens

96. In the reaction $CH_3CHO \rightarrow CH_3CH_2OH$, $LiAlH_4$ is used as

- [A] reducing agent
- [B] oxidizing agent
- [C] hydrating agent
- [D] dehydrating agent

97. If the velocity-time graph of an object in motion is a straight line inclined to the time axis, which of the following is **correct**?

- [A] Velocity is uniform
- [B] Both velocity and acceleration are uniform
- [C] Acceleration is uniform
- [D] Neither velocity nor acceleration is uniform

98. Density of water is maximum at

- [A] $0^\circ C$
- [B] $4^\circ C$
- [C] $10^\circ C$
- [D] $6.8^\circ C$

99. The change of solid directly to vapour at constant temperature is called

- [A] regelation
- [B] condensation
- [C] vaporization
- [D] sublimation

100. The basic instrument employed to just detect the current is

- [A] galvanometer
- [B] ammeter
- [C] wattmeter
- [D] voltmeter