

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

TEST BOOKLET NO-25028

PART A

Time Allowed: 02:00 hrs

Maximum Marks: 200

GENERAL STUDIES

INSTRUCTIONS TO CANDIDATES

Read the instructions carefully before answering the questions: -

1. This Test Booklet consists of 20 (twenty) pages and has 100 (one hundred) items (questions).
2. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
3. Please note that it is the candidate's responsibility to fill in the Roll Number and other required details carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the OMR Answer Sheet liable for rejection.
4. Do not write anything else on the OMR Answer Sheet except the required information. Before you proceed to mark in the OMR Answer Sheet, please ensure that you have filled in the required particulars as per given instructions.
5. Use **only Black Ball Point Pen** to fill the OMR Answer Sheet.
6. **All questions are Multiple Choice-based.** The answers to these questions have to be marked in the OMR Answer Sheet provided to you.
7. Each item (question) comprises of 04 (four) responses (answers). You are required to select the response which you want to mark on the OMR Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
8. After you have completed filling in all your responses on the OMR Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the OMR Answer Sheet** . You are permitted to take the Test Booklet with you.
9. **Penalty for wrong answers in Multiple Choice-based Questions:**
THERE WILL BE **PENALTY** FOR WRONG ANSWERS MARKED BY A CANDIDATE.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to the question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to the question.

If a question is left blank. i.e., no answer is given by the candidate, there will be **no penalty** for that question

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MULTIPLE CHOICE BASED QUESTIONS

Instructions for Questions 1 to 100:

- Choose the correct answer for the following questions
- Each question carries 2 marks

(100 x 2 = 200 marks)

1) Erasmus plus programme is a flagship initiative of which organization?

- A) Food and Agriculture organization (FAO)
- B) European Union (EU)
- C) United Nations Educational, Scientific and Cultural Organization
- D) World Bank

2) Which states have all districts in 'Front Runner Category' according to the North-Eastern Region District Sustainable Development Goals (SDG) 2023-24?

- A) Arunachal Pradesh and Meghalaya
- B) Nagaland and Assam
- C) Mizoram, Sikkim and Tripura
- D) Sikkim and Arunachal Pradesh

3) Which state has become the first in India to use a predictive model for estimating the risk of death among adults diagnosed with Tuberculosis?

- A) Tamil Nadu
- B) Karnataka
- C) Odisha
- D) West Bengal

4) What is the name of the India's first indigenous diving support vessel which will be commissioned into the Indian Navy?

- A) INS Surya
- B) INS Nistar
- C) INS Arihant
- D) INS Chakra

5) Which country will be joining European Union (EU) from January 2026?

- A) Syria
- B) Norway
- C) Turkey
- D) Bulgaria

- 6) What is the name of India's first crewed space mission proposed to be launched in 2027?
- A) Shukrayaan
 - B) Chandrayaan-3
 - C) Mangalyaan
 - D) Gaganyaan
- 7) Who is the first woman to be elected as the President of Suriname and also the first woman President of South American country?
- A) Jenifer Simons
 - B) Dina Boluarte
 - C) Hilda Heine
 - D) Dilma Rousseff
- 8) Which fossil park in India is added to UNESCO in the tentative list?
- A) Salkhan Fossil Park
 - B) Shivalik Fossil Park
 - C) Indroda Dinosaur and Fossil Park
 - D) Ghughua Fossil Park
- 9) Which institute has launched 'BHARAT' (Biomarkers of Healthy Aging, Resilience, Adversity and Transitions) initiative?
- A) Indian Institute of Science (IISc)
 - B) Homi Bhabha National Institute (HBNI), Mumbai
 - C) Bose Institute, Kolkata
 - D) All India Institute of Medical Sciences
- 10) What is the name of the operation launched by the Narcotics Control Bureau (NCB) to stop illegal pharmaceutical drug trade?
- A) Operation Black Shield
 - B) Operation Delta Strike
 - C) Operation White Eagle
 - D) Operation Med-Max
- 11) Philadelphi Corridor recently seen in the news is located along the border of Gaza and which country?
- A) Sudan
 - B) Lebanon
 - C) Egypt
 - D) Jordan

12) Which city has recently launched India's first QR-based home address plates?

- A) Bangalore
- B) Indore
- C) Hyderabad
- D) New Delhi

13) Scientists from which country have found a way to freeze light and make light act like a 'super solid', a rare state of matter?

- A) Spain
- B) Italy
- C) Germany
- D) India

14) 'Kombucha' is a fermented tea which is slowly gaining popularity in India, originated in which country?

- A) China
- B) Japan
- C) Indonesia
- D) South Korea

15) What is the main objective of Open Market Sale Scheme (OMSS)?

- A) To ensure food security and control market prices during lean seasons
- B) To increase food grain production
- C) To increase food grain prices globally
- D) To increase food grain consumption

16) From which Indian site the most ancient human remains have been recovered?

- A) Bhimbetka
- B) Sarai Nahar Rai
- C) Burzahom
- D) Nevasa

17) Which Buddhist principle was related to the series of Causation?

- A) Syadvada
- B) Atthanga-magga
- C) Ariya-sachchani
- D) Patichcha-samuppada

- 18) Which Chola institution collected land-revenue?
- (A) Gram-Sabha
 - (B) Nadu
 - (C) Kurram
 - (D) Kottam
- 19) Which of the following Sultans is credited with establishment of *darush shifa* for treatment of the commoners?
- A) Iltutmish
 - B) Firozshah Tughluq
 - C) Balban
 - D) Ala-ud-din Khalji
- 20) The text *Majma'u-l Bahrain* (Mingling of the two oceans) was composed by?
- A) Kabir
 - B) Mian Mir
 - C) Mulla Shah Badakhshi
 - D) Dara Shukoh
- 21) Which of the following Viceroys preferred a simultaneous competitive examination in India, to allow the entry of educated Indians of merit and ability into the Covenanted Civil Service?
- A) William Bentinck
 - B) Lord Minto
 - C) Lord Ripon
 - D) Lord Curzon
- 22) Which of the following freedom fighters was editor of the journal *Bandemataram*?
- A) Bankimchandra Chatterjee
 - B) Vinayak Damodar Savarkar
 - C) Bal Gangadhar Tilak
 - D) Aurobindo Ghose
- 23) "The time has come when badges of honour make our shame glaring in their incongruous context of humiliation, and I for my part wish to stand shorn of all special distinctions..."
The cited statement refers to which incident of the Indian history?
- A) Jallianwala Bagh Massacre
 - B) Chauri Chaura Violence
 - C) Moplah Agitation
 - D) Kheda uprising

- 24) August 1, 1920 was a day that marked which of the following two events:
- A) Passage of Rowlatt Act and launch of Non-Cooperation Movement
 - B) Launch of Non-Cooperation Movement and death of Lokmanya Tilak
 - C) Khilafat Committee meeting and acceptance of Non-Cooperation Movement
 - D) Treaty of Sevres and initiation of the Khilafat Movement
- 25) What was the common feature of the Eka Movement, Mappila Movement and the Bardoli Movement?
- A) All were peasant movements
 - B) All were tribal uprisings
 - C) All were led by Mahatma Gandhi
 - D) All had initiated in Northern India
- 26) "India...has...been bled white by the forces of organized capital and is today lying prostrate at its feet. Militarism and Imperialism are the twin-children of capitalism; they are one in three and three in one ..." Who uttered this famous statement?
- A) Dadabhai Naoroji
 - B) Surendranath Banerjee
 - C) Lala Lajpat Rai
 - D) Subhas Chandra Bose
- 27) *The Philosophy of the Bomb* was written by:
- A) Bhagwati Charan Vohra
 - B) Bhagat Singh
 - C) Chandrasekhar Azad
 - D) Bipin Chandra Pal
- 28) The Bombay Plan (1944) took up the issue of:
- A) Rapid economic growth and equitable distribution
 - B) Land Reforms
 - C) Workers' welfare schemes
 - D) All of the above
- 29) Which was NOT a feature of the Quit India Movement?
- A) Emergence of parallel governments in parts of India
 - B) Non-participation of the peasants
 - C) Participation of Muslim League supporters
 - D) Participation of the Communists

30) The southern most limit of India is:

- A) 8° 4' 10"
- B) 6° 30' 15"
- C) 6° 30' 00"
- D) 8° 4' 00"

31) Which state is not bisected by the tropic of cancer?

- A) West Bengal
- B) Rajasthan
- C) Gujarat
- D) Orissa

32) Coral reefs in India can be found in:

- A) the coast of Orissa
- B) Waltair
- C) Rameshwaram
- D) Trivandrum

33) Which river crosses the Equator twice?

- A) Amazon
- B) Congo
- C) Nile
- D) Orinoco

34) Which among the following countries is known as "Land of Thousand Lakes"?

- A) Norway
- B) Finland
- C) Sweden
- D) Estonia

35) Which one of the following pairs is correctly matched?

Geographical Feature

Region

- | | |
|------------------------|----------------------|
| A) Abyssinian Plateau: | Arabia |
| B) Atlas Mountains: | North-Western Africa |
| C) Kalahari Basin: | Australia |
| D) Okavango Basin: | Patagonia |

36) Which one is an ancient continental island:

- A) New Zealand and Madagascar
- B) Andamans and Nicobar
- C) Australia
- D) Ethiopian realm

- 37) What is a watershed?
- area of land that water flows across as it moves toward a larger water body
 - area of land from which water drains to a particular water body
 - moisture released from clouds in the form of rain, snow, hail, etc.
 - both (a) and (b)
- 38) Hot deserts generally are:
- On the eastern margins of the Tropics
 - Nearer the Equator
 - In the middle of the continents
 - On the western margins of the Tropics
- 39) The distance between two longitudes at equator is:
- 120.23 km.
 - 110.34 km.
 - 111.32 km.
 - 115.15 km.
- 40) A bowl shaped depression created by glacial erosion is called:
- Talus
 - Cirque
 - Hanging trough
 - Tarn
- 41) The extensive coffee plantation in Brazil is called:
- Trasil
 - Corrals
 - Fazendas
 - Estancias
- 42) Which of the following pairs are correctly matched?
- | | | |
|----|------------|----------------------|
| 1. | Whittlesey | Agricultural regions |
| 2. | Herbertson | Natural regions |
| 3. | Losch | Central Place theory |
| 4. | Mackinder | Industrial Location |
- 1, 2 and 4
 - 1, 3 and 4
 - 2, 3 and 4
 - 1, 2 and 3
- 43) The Colby hypothesis offers a dynamic explanation of:
- urban development
 - land use
 - sustainable development
 - rural development

44) Match List - I with List - II and select the correct answer using the code given below

List - I (Rights)

- a. Rights to Constitutional remedies
- b. Right against Exploitation
- c. Right to Equality
- d. Right to Freedom of Religion

Codes:-

List - II (Article/s in the Indian Constitution)

- 1. Article 25-28
- 2. Article 14-18
- 3. Article 23-24
- 4. Article 32

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

45) When was the UDHR (Universal Declaration of Human Rights) adopted?

- A) 10 December 1948
- B) 10 December 1920
- C) 10 November 1939
- D) 10 December 1945

46) Who wrote the book 'Towards A New Public Administration : The Minnowbrook Perspective' ?

- A) Dwight Waldo
- B) C. J. Charlesworth
- C) J. M. Pfiffner
- D) Frank Marini

47) 'Good Governance' and 'Participating Civil Society for Development' were stressed in World Bank Report of—

- A) 1992
- B) 1997
- C) 2000
- D) 2003

48) The 73rd and 74th constitutional amendments of the Indian Constitution gave a constitutional status to which of the following?

- A) Right to education
- B) Lokayukt and Lok Pal
- C) Panchayat and Municipal Bodies
- D) Right to Information

- 49) In which of the following articles of the Indian Constitution are the Cultural and educational rights enshrined?
- Articles 23 & 26
 - Articles 31 & 32
 - Articles 19 & 21
 - Articles 29 & 30
- 50) Which Commission recommended reservation to the OBCs?
- Mandal Commission
 - Sarkaria Commission
 - Radhakrishnan Commission
 - Kothari Commission
- 51) Which Article of the Constitution of India says, "No child below the age of 14 years shall be employed to work in any factory or mines or engaged in any other hazardous employment"?
- Article 24
 - Article 45
 - Article 330
 - Article 368
- 52) Which Committee, prior to Sachar Committee, addressed the issue of Muslims?
- Gopal Singh Committee
 - Gujral Committee
 - Nehru Report
 - Bipin Chandra Committee
- 53) Which one of the following Fundamental Rights in Indian Constitution stands deleted now?
- Right to Social Security
 - Right to property
 - Right to Freedom of Religion
 - Right to Free and Compulsory Education
- 54) The First Generation of Human rights are fundamentally:
- Economic, Social and Cultural Rights
 - Civil and Political Rights
 - Fraternity/Solidarity Rights
 - Environmental Rights

55) Which one of the following is not a Writ under Article 32 of the Indian Constitution?

- A) Quo Supremo
- B) Prohibition
- C) Mandamus
- D) Habeas Corpus

56) Which article of the Indian Constitution abolishes Untouchability?

- A) Article 19
- B) Article 17
- C) Article 36
- D) Article 21

57) Protection Officers, Shelters, Protection orders, Residence Orders are provided for in

- A) Right to Property
- B) Right to Information Act
- C) Protection of women from Domestic Right Violence Act
- D) Juvenile Justice Act, 2000

58) Match the following:

List 1: Index		List 2: Publisher	
1	Kirit Parikh Committee (2022)	I	To study the impact of futures trading on agricultural commodity prices in India
2	Abhijit Sen Committee (2007)	II	To improve the governance of the boards of the public sector banks (PSBs) of India
3	PJ Nayak Committee (2014)	III	To propose a comprehensive reforms in the governance of the Indian Railways
4	Bibek Debroy Committee (2014)	IV	To review and propose changes in domestically produced natural gas pricing policy in India

- A) 1-IV, 2-II, 3-I, 4-III
- B) 1-IV, 2-I, 3-II, 4-III
- C) 1-II, 2-III, 3-IV, 4-II
- D) 1-II, 2-I, 3-IV, 4-III

59) Out of Manipur, Meghalaya, Sikkim and Tripura, choose the correct option showing quantity of total vegetables production by each state in descending order based on data for 2022-23.

- A) Sikkim, Tripura, Meghalaya, Manipur
- B) Meghalaya, Tripura, Manipur, Sikkim
- C) Tripura, Meghalaya, Sikkim, Manipur
- D) Tripura, Meghalaya, Manipur, Sikkim

60) Consider the following statements:

- i. Mission Organic Value Chain Development for North East Region (MOVCDNER) has been launched as part of the National Mission for Sustainable Agriculture by the Ministry of North Eastern Region.
- ii. PM-DevINE is fully funded scheme by the Central Government and comes under the Ministry of Social Justice and Empowerment, Government of India.
- iii. SAUBHAGYA is the scheme of the Ministry of the Power, Government of India to achieve universal household electrification in India.
- iv. Atal Vayo Abhyuday Yojna (AVYAY) is the scheme of the Ministry of Social Justice and Empowerment focusing on well-being of the senior citizens of India.

Which of the options is/are showing correct statements?

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

61) Out of Arunachal Pradesh, Mizoram, Sikkim and Tripura, choose the correct option showing the female literacy rate by each state in descending order based on the Census of India-2011.

- A) Mizoram, Tripura, Sikkim, Arunachal Pradesh
- B) Mizoram, Sikkim, Tripura, Arunachal Pradesh
- C) Tripura, Sikkim, Mizoram, Arunachal Pradesh
- D) Tripura, Mizoram, Arunachal Pradesh, Sikkim

62) Consider the following statements:

- i. Preferential Trade Agreement stands for reduced tariffs on certain goods and services traded amongst the member countries while higher tariffs on non-member countries.
- ii. Custom Union is a Free Trade Area with an arrangement that each member country can have different external tariffs with non-member countries.
- iii. European Union is a good example of Custom Union.
- iv. NAFTA is an example of Custom Union

Which of the options is/are showing correct statements?

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

63) Shyama Prasad Mukherji Rurban Mission (SPMRB) is the scheme of the Government of India under which of its ministries?

- A) Ministry of Housing and Urban Affairs
- B) Ministry of Rural Development
- C) Ministry of New and Renewable Energy
- D) Ministry of Education

64) As per the Sustainable Development Report-2025, what is the rank of India amongst 167 countries?

- A) 130
- B) 121
- C) 99
- D) 74

65) Consider the following statements:

- i. Global Innovation Index is published by the World Trade Organization to highlight the trade competitiveness of the member countries.
- ii. As per the Global Innovation Index (GII)-2024, India ranks 39th amongst the GII ranked countries.
- iii. India is ranked 1st in the Central and Southern Asia region in the GII as per the GII-2024.
- iv. India is ranked 5th in the Central and Southern Asia region in the GII as per the GII-2024.

Based on above-mentioned statements which of the following is/are correct statements?

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

66) Choose the correct descending order of states in terms of their installed solar power capacity (MW) as on 31st March 2025.

- A) Gujarat, Maharashtra, Tamil Nadu, Rajasthan
- B) Rajasthan, Maharashtra, Gujarat, Tamil Nadu
- C) Gujarat, Rajasthan, Maharashtra, Tamil Nadu
- D) Rajasthan, Gujarat, Maharashtra, Tamil Nadu

67) Consider the following statements:

- i. Menstrual Hygiene Scheme (MHS) was started initially in 2011 by the Government of India and under this scheme a rural adolescent girl was provided six sanitary napkins for rupees six.
- ii. The National Mental Health Program (NMHP) was launched in 1982 by the Government of India to address the problems of mental illness in India.

- iii. The National Tobacco Control Program was launched in 2014 by the Government of India to address the problems of tobacco consumption and distribution in the society.
- iv. The Ayushman Bharat – Pradhan Mantri Jan Arogya Yojana (AB-PMJAY) was launched in September, 2018.

Which of the following is/are correct statements?

- A) i, ii and iii only
 - B) All the statements
 - C) i and ii only
 - D) i, ii and iv only
- 68) Which of the following country has largest area of farmland devoted for the organic farming as per the latest report of the Research Institute of Organic Agriculture (FiBL)?
- A) India
 - B) China
 - C) USA
 - D) Australia
- 69) As per the latest data by the United Nation's Food and Agricultural Organisation, which of the following countries is the highest producer of raw tobacco in the world?
- A) Zimbabwe
 - B) China
 - C) India
 - D) Brazil
- 70) The Agricultural Infrastructure Fund was launched in 2020-21 by the Government of India to promote the agricultural activities by supporting farm gate storage, logistics and processing infrastructure across India. Under which ministry of the central government does this scheme come?
- A) Ministry of Agriculture and Farmers Welfare
 - B) Ministry of Food Processing Industries
 - C) Ministry of Finance
 - D) Ministry of Cooperation
- 71) Based on the following Assertion (A) and Reason (R) choose the correct answer:

Assertion (A): As per the Periodic Labour Force Survey (PLFS) conducted by the Ministry of Statistics and Program Implementation, there has been a rise in Worker Population Ratio since 2017-18.

Reason (R): The Periodic Labour Force Survey (PLFS) of Ministry of Statistics and Program Implementation has shown continuous decrease in the Unemployment Rate since 2017-18.

- A) A and R are true and R is the correct explanation of A
- B) A and R are true and R is not the correct explanation of A
- C) A is true but R is false
- D) A is false but R is true

72) Which of the following greenhouse gases has the maximum warming effect in the atmosphere?

- A) Ozone
- B) Methane
- C) Carbon dioxide
- D) Chlorofluorocarbon

73) Which state in India is pioneer in making rainwater harvesting as a compulsory measure in towns to avoid ground water depletion?

- A) Kerala
- B) Arunachal Pradesh
- C) Tamil Nadu
- D) Maharashtra

74) Marine pollution is caused by:

- | | |
|---------------|-----------------|
| 1. Sewage | 2. Land runoff |
| 3. Oil spills | 4. Ocean mining |

Choose the correct option:

- A) 1,3, and 4 only
- B) 3 and 4 only
- C) 1,2,3, and 4
- D) 2,3, and 4 only

75) Match List I with List II:

List I

- (Water Parameters)
- (A) Total coliform organism MPN per 100mL
 - (B) pH
 - (C) DO
 - (D) BOD(5 days, 20°C)

List II

- (Permissible values)
- (i) 6.5-8.5
 - (ii) < 50 per 100 mL
 - (iii) 2 mg/L or less
 - (iv) 6mg/L or more

Choose the correct answer from the options given below:

- | A. | B. | C. | D. |
|----------|------|-------|-------|
| A) (ii) | (i) | (iv) | (iii) |
| B) (ii) | (i) | (iii) | (iv) |
| C) (iii) | (iv) | (ii) | (i) |
| D) (iv) | (ii) | (iii) | (i) |

- 76) In purification of drinking water, the purpose of aeration is not to:
- A) Removal of dissolved gases such as H_2S
 - B) Removal of volatile organic compounds
 - C) Oxidize soluble Fe^{2+} to Fe^{3+}
 - D) Precipitate colloidal particles
- 77) An ecosystem which can be easily damaged but can recover after some time if damaging effect stops will be having:
- A) High stability and high resilience
 - B) Low stability and low resilience
 - C) High stability and low resilience
 - D) Low stability and high resilience
- 78) Which of the following sustainable development goals focuses on climate action?
- A) SDG 11
 - B) SDG 13
 - C) SDG 15
 - D) SDG 17
- 79) WHO recommends water should be tested for which of the following indicator organisms to assess bacterial contamination?
- A) *Clostridium botulinum*
 - B) *Streptococcus pneumoniae*
 - C) *Escherichia coli*
 - D) *Pseudomonas aeruginosa*
- 80) Which of the following ecosystems is known for its high biodiversity?
- A) Desert
 - B) Tundra
 - C) Tropical rainforest
 - D) Grassland
- 81) What is the term for the maximum population size that an environment can sustain?
- A) Population density
 - B) Carrying capacity
 - C) Biotic potential
 - D) Ecological footprint
- 82) With the change in environmental conditions, species that are not adapted to such changed conditions disappear. This phenomenon is called
- A) Anthropogenic extinction
 - B) Mass extinction
 - C) Natural extinction
 - D) Species migration

83) Which of the following is involved in denitrification process in terrestrial environment?

- A) Rhizobium
- B) Spirillum Lipoferum
- C) Nitrosomonas
- D) Pseudomonas

84) The area that acts as a boundary or a transition zone between two ecosystems is known as

- A) Ecosphere
- B) Ecoboundary
- C) Ecotwin
- D) Ecotone

85) Biodiversity hotspots are regions of high:

- A) Stationary population of common species
- B) Richness of endemic species
- C) Migratory population
- D) Richness of dominant species

86) Assertion: The vectors of equal magnitude may have different sets of components along X-axis and Y-axis.

Reason: The component of a vector depends on magnitude as well as orientation of vector.

- A) Both Assertion and Reason are correct and Reason is the correct explanation of Assertion.
- B) Both Assertion and Reason are correct but Reason is not the correct explanation of Assertion.
- C) Assertion is correct but Reason is incorrect
- D) Both Assertion and Reason are incorrect

87) A wire of resistance R is cut into 8 equal pieces. From these pieces two equivalent resistances are made by adding four of these together in parallel. Then these two sets are added in series. The net effective resistance of the combination is:

A) $\frac{R}{16}$

B) $\frac{R}{8}$

C) $\frac{R}{64}$

D) $\frac{R}{32}$

88) Mark the correct statements about the friction between two bodies-

- a. Static friction is always greater than the kinetic friction
- b. Coefficient of static friction is always greater than the coefficient of kinetic friction
- c. Limiting friction is always greater than the kinetic friction
- d. Limiting friction is never less than static friction

- A) b, c, d
- B) a, b, c
- C) a, c, d
- D) a, b, d

89) Compton effect demonstrates

- A) wave nature of light
- B) particle nature of light
- C) reflection of light
- D) refraction of light

90) A Zener diode is used in

- A) Amplification
- B) Rectification
- C) Voltage Regulation
- D) Oscillation

91) Oxidation number of oxygen in OF_2 is

- A) +2
- B) -2
- C) -1
- D) +1

92) What is the number of $-\text{COOH}$ groups present in phthalic acid?

- A) 4
- B) 1
- C) 2
- D) 3

93) Which of the following is simple ketone?

- A) Acetophenone
- B) Butanone
- C) Benzophenone
- D) Pentanone

94) Which of the following acids is a vitamin?

- A) Adipic Acid
- B) Ascorbic Acid
- C) Saccharic Acid
- D) Aspartic Acid

95) Dalton's Atomic theory could not explain which of the following?

- A) Law of multiple proportion
- B) Law of gaseous volume
- C) Law of conservation of mass
- D) Law of constant proportion

96) Read the following statements below and answer how many are incorrect?

- a. Prions consist of abnormally folded proteins
- b. Viroids lack a protein coat
- c. Viruses are obligate parasites
- d. Infective constituent in viruses is the protein coat

- A) 3
- B) 2
- C) 4
- D) 1

97) Select the correct statements about numerical taxonomy.

- i. Equal importance given to each character
- ii. Based on all observable characters
- iii. Easily carried out using computers
- iv. Only few characters can be considered at the same time

- A) i,ii,iv
- B) ii,iii,iv
- C) i,iii,iv
- D) i,ii,iii

98) What is the name of the blood vessel that carries deoxygenated blood from the body to the heart in a frog?

- A) Pulmonary Vein
- B) Vena cava
- C) Aorta
- D) Pulmonary Artery

99) Assertion: An angiospermous flower represents the modified condensed shoot.
Reason: The fertile leaves of the shoot become modified into sepals and petals.

- A) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- B) Both Assertion and Reason are correct and Reason is not the correct explanation of Assertion.
- C) Assertion is correct but Reason is false
- D) Assertion is false and Reason is true

100) Which one of the following is an example of ex-situ conservation?

- A) Zoos and Botanical gardens
- B) Protected areas
- C) National Park
- D) Wildlife Sanctuary

..... X

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