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**PAPER- I (GS)**

**ANSWER KEY AND EXPLANATION**

Q.NO	ANSWER	Q.NO	ANSWER	Q.NO	ANSWER	Q.NO	ANSWER
1	C	26	D	51	B	76	B
2	B	27	B	52	C	77	B
3	C	28	D	53	C	78	A
4	C	29	D	54	C	79	B
5	D	30	D	55	A	80	A
6	D	31	B	56	D	81	A
7	D	32	A	57	D	82	A
8	B	33	C	58	C	83	D
9	C	34	A	59	A	84	A
10	A	35	C	60	A	85	D
11	B	36	D	61	B	86	A
12	C	37	B	62	B	87	D
13	A	38	D	63	D	88	B
14	A	39	D	64	B	89	D
15	D	40	A	65	B	90	D
16	D	41	B	66	A	91	B
17	D	42	B	67	D	92	B
18	D	43	C	68	B	93	B
19	A	44	A	69	C	94	D
20	B	45	C	70	B	95	C
21	D	46	B	71	B	96	D
22	D	47	D	72	B	97	C
23	C	48	A	73	A	98	A
24	D	49	A	74	B	99	D
25	C	50	D	75	B	100	B

## EXPLANATION

Q1) C

Many factors played role in victory of East India Company in Bengal. Many times Company threatened to get accepted its demands but Nawabs ignored this. Ignorance about outer world kept them far to distinguish the colonial character of Company. Along with due to weak military of Bengal it faced Marathas attacks several times. Nawabs failed to stop corruption among officers. Hence statements 1, 2 and 3 are correct. On the other hand moral value of Nawabs was of high degree.

Q2) B

Indian Society in Eighteenth Century was beset of inequalities. Feuds were enjoying luxurious life due to having wealthy position whereas peasants were living impoverished and tough life. Indian agricultural technology was become immobilized. Hence statements 1 and 2 are wrong. Statements 3 and 4 are correct.

Q3) C

Q4) C

Initially, soldiers got double allowance only during war time but later it was provided during peace time also and it became a part of salary of soldiers.

In 1763 Court of Directors ordered to withdraw this which was implemented by Clive. Since January 1766 this allowance was only provided to those soldiers who served beyond the boundary of Bengal and Bihar. Hence both statements are correct.

Q5) D

Major exporting countries of Natural Rubber are Malaysia, Indonesia, Thailand, Sri Lanka. U.S.A is the importer of Natural Rubber.

Q6) D

The given features are found in Anthracite coal.

Q7) D

Q8) B

Doldrum occurs between North-Eastern Trade Winds and South-Eastern Trade winds.

Q9) C

Generally There is lack of clouds in Stratosphere.

10) A

When sun rays fall tilted then these spread in large region. Hence intensity of insolation decreases.

**11) B**

The radiation from earth is called terrestrial radiation. It is generally in form of long waves because according to fundamental rule of radiation the hotter the object the length of its emission waves will decrease accordingly. Hence radiation from the sun occurs in form of short waves and from earth it occurs in form of long waves. Atmosphere is transparent for solar radiation whereas it is like opaque for terrestrial radiation because some gases and water vapour absorb hence atmosphere becomes hotter from terrestrial radiation. Since atmosphere becomes hot due to terrestrial radiation hence it becomes hot from downward to upward.

12) C

Factors responsible for controlling distribution of temperature are:

1. Difference in rate of warming of land and water.
2. Permanent wind
3. Ocean Currents.
4. Height from the Sea level
5. Intensity of slope of land.
6. Direction of slope with respect to sun.

13) A

Probably the most significant political work of early nationalists was the economical criticism of imperialism. Early nationalists imposed responsibility of increasing poverty and economical backwardness on the Britishers. Early nationalists assumed Congress as political forum and issues of social reform did not include in this. Hence statements 2 and 3 are wrong. Only statement 1 is correct.

14) A

This movement was initiated by Annie Besant. She believed that Congress is so powerless under liberalists that it can do nothing in the line of self governance. This movement became much popular among people. Hence statement 3 is wrong. Statements 1 and 2 are correct.

15) D

All three statements are correct for Lala Lajpat Rai. He published Newspapers Vande Mataram in Urdu and The People in English. He was elected as President of Calcutta Congress Session in 1920.

16) D

17) D

18) D

The group opposing Quit India Movement included: Communist Party, Hindu Mahasabha, Muslim League, Liberalists of Congress like Tej Bahadur Sapru, C. Rajgopalachari, B.R. Ambedkar etc.

19) A

Due to possibilities of communal riots nationalist leaders accepted partition of India but they did not accept two nation theory. They also did not give their assent to the demand of Muslim League of providing it one-third part of muslim population of the country. They only became ready to give those regions where Muslim League had strong presence. There was dubious effect of League in Northwest frontier province and in Silhat district of Assam. Hence it was decided for plebiscite at those places. Hence India partitioned but not on the base of Hindu religion and Muslim religion.

Hence statements 1 and 4 are wrong. Statements 2 and 3 are correct.

20) B

Arabs got learnings of medical science, philosophy, astrology, mathematics and governance from Indians.

21) D

22) D

23) C

Temperature of surface water in ocean is not equal everywhere because there is difference of temperature from one part to another. Isothermal lines are not parallel in oceans, these are affected by permanent winds and oceanic currents.

24) D

**Marshal Art State**

Thang ta – Manipur

Gatka – Punjab

Silambam – Tamil Nadu

Mardani Khel – Maharashtra

Kalaripayattu – Kerala

Thoda – Himachal Pradesh

Mushti Yudh – Uttar Pradesh

Paika Akhara – Odisha

25) C

Bhavai – Rajasthan and Gujarat

Nautanki – Uttar Pradesh

Gavati – Rajasthan

26) D

27) B

Generally Salinity decreases with increase in depth but this decreasing changes according to latitude.

28) D

29) D

30) D

31) B

32) A

In the Imperial Council, firstly, Gokhale introduced the proposal of making primary education compulsory and providing free primary education to children of households whose monthly income was less than Rs.10.

33) C

Bal Gangadhar Tilak opposed this act. He believed that reforms for Indians should come from Indians not from foreign rule.

34) A

35) C

36) D

37) B

38) D

39) D

40) A

When the Legislative Assembly of the State passes a resolution only then the Parliament can make a law for dissolution or creation of the Council.

41) B

Writ of Prohibition can be issued only against judicial, quasi judicial acts.

42) B

43) C

44) A

In the case of sudden death of the Chief Minister and situation of undetermined leadership appears, the Governor appoints the new Chief Minister from his discretionary power.

45) C

The Money Bill can be introduced only by the recommendation of the President. If Money Bill is rejected in Lok Sabha then the Government has to resign. Money Bill can't be returned by the President for reconsideration.

46) B

Gujarat - 1960

Nagaland - 1963

Himachal Pradesh - 1971

Sikkim – 1975

47) D

48) A

49) A

Blood having PH  $>7$  will turn a red litmus paper blue. Most abundant cells in a blood sample are RBCs.

The artificial blood is O-negative which can be used on all patients.

50) D

Silver Iodide being highly photo sensitive is used in photography.

The crystallite structure of Silver Iodide is similar to that of ice, allowing it to induce freezing in cloud seeding for the purpose of rain making. It can also be used as an antiseptic.

51) B

This project is the joint effort of Ministry of overseas Indian affairs and Ministry of External Affairs.

52) C

53) C

54) C

55) A

In Census, maximum decadal growth rate has been observed in Meghalaya (27.82%). Nagaland has observed lowest decadal growth (-0.47%)

56) D

57) D

Light has dual nature. Sometimes it behaves like a particle (called a photon), which explains how light travels in straight line, and sometimes it behaves like a wave, which explains how light bends around an object.

58) C

Frequency is the property of the source whereas wavelength depends on the medium through which the wave is passing. So frequency will not change but wavelength will change when a wave passes from one medium to other.

59) A

18th group in the periodic table corresponds to the inert gases- Helium, Neon, Argon, Xenon, Krypton, Radon.

These gases are inert because their electronic configuration is completely fulfilled. Nitrogen is not an inert gas.

60) A

Streptomycin, Tetracyclin and Erythromycin are some of the commonly known antibiotics which are made from fungi and bacteria.

61) B

62) B

Bile juice is secreted from liver and stored in gall bladder and used in the digestion of fats.

Digestion of starch starts in buccal-cavity.

63) D

Only one nucleus is present in a zygote which is formed by the fusion of male sperm cell and female ovary.

A new human individual develops from a zygote.

64) B

Muscle cells are spindle in shape whereas nerve cells are branched.

The basic living unit of an organism is a cell.

65) B

66) A

USA is a signatory to CBD but it has not ratified it. Main concerns of USA are the CBD provisions, which call for technology transfer to developing countries. USA thinks that it could threaten USA's intellectual property interests.

67) D

68) B

The difference between a National Park and a Sanctuary is that no human activity is allowed inside a National Park, while limited activities are permitted with Sanctuary. In Biosphere Reserve, limited economic activity is permitted.

69) C

The Manipuri brow-antlered deer (Sangai) is found in its natural habitat only at Keibul Lamjao National Park, Loktak Lake, Manipur. It is also the state animal of Manipur.

70) B

Indian Wild Ass Sanctuary is located in the Little Rann of Kutch. It is the largest Wildlife Sanctuary.

71) B

72) B

'Namami Gange' is 100% sponsored by Central Government.

73) A



74) B

75) B

The standards for ecomark are set by BIS which also does testing and certification of ecomark.

Any product which is made, used or disposed off in a way that significantly reduces the harm it would otherwise cause to the environment, are categorized as environment friendly products.

76) B

In March 2015, National Green Tribunal (NGT) has the issued order against the illegal running in eastern Jaintia hills of Meghalay.

77) B

The concept was given by James Tobin, a Nobel prize winner American economist. Tobin proposed a worldwide tax on all foreign exchange transactions (when foreign capital enters a country and when it levels).

This was with an intention to penalise short term currency speculation. And as per proponents of this concept it will have no adverse affect on FDI, as they are long term investment.

78) A

Under monopoly, there is no 'supply curve', it is because there is lack of one-to-one relationship between price and quantity produced.

79) B

MIGA is a member of the World Bank group.

80) A

A Committee was constituted by Govt. of India under chairmanship of Dr. Arvind Mayaram, in order to remove the ambiguity that was prevailing regarding definition of FDI & FII.

As per the report of this committee FDI is characterised by existence of a long term relationship. Normally, ownership of 10% or more of ordinary shares or voting power signifies this relationship. This report was accepted by Govt. of India.

81) A

82) A

4G services work on Local Area Network and with the help of OFDMA (Orthogonal Frequency Division Multiple Access) network has become better. WCDMA is used 3G services.

83) D

84) A

85) D

86) A

87) D

88) B

89) D

Capacitive touchscreen has more clarity than the Resistive touchscreen. In Resistive touchscreen electric current is measured whereas in Capacitive touchscreen electric charge is measured.

90) D

91) B

A photon have zero rest mass.

92) B

The scheme has no classification with respect to poverty i.e. BPL or APL.

93) B

94) D

95) C

96) D

Nirbhay is India's first domestically developed long range subsonic cruise missile. The missile has an operational range of approximately 1000 km and can cruise at a speed of Mach 0.8.

97) C

Participatory Notes are instruments used for making investment for facilitating the participation of overseas funds like hedge funds and other who are not registered with SEBI and thus not directly eligible for investing in Indian stocks.

98) A

West Bengal is the biggest producer of fresh water fishes, after which Andhra Pradesh, Uttar Pradesh and Bihar come consequently. In India, 75% of total marine fish production occurs in western part. Kerala is the biggest marine fish producer. After it, Gujarat, Maharashtra, Tamil Nadu and Andhra Pradesh gain the place.

99) D

100) B

According to this scheme, there will be one gram (village) in every district which will be taken as a pilot project and the village with poorest indicators of water availability will be chosen.