

ODISHA PUBLIC SERVICE COMMISSION
Recruitment to the Posts of AEE(Civil) in Panchayati Raj Dept[Advt. No. 04 of 2020-21]
Question paper-I of the Computer Based Main Written Examination held on 24.08.2021

SL	QUESTION	OPTION 1	OPTION 2	OPTION 3	OPTION 4
1	In the black body radiation experiment, the "blackbody"	absorbs all electromagnetic waves irrespective of its frequencies	absorbs only black color radiation	emits the black color radiation	is a hollow body, black in color
2	The stopping potential value of a material is 0.6 V when the light source is kept at a distance 'X' cm. If the source is moved to '2X' cm away, the stopping potential will be	0.6 V	0.3 V	1.2 V	2.4 V
3	A particle of mass ' m_0 ' moves with speed $0.8c$, where ' c ' is the speed of light in vacuum. The relativistic kinetic energy of the particle is nearly	$1.66m_0c^2$	m_0c^2	$0.32m_0c^2$	$0.66m_0c^2$
4	Under the influence of a transverse magnetic field, an electron moves in a circle with the constant speed ' v '. The time period of revolution is	Proportional to V	Proportional to v^2	Proportional to v	Independent of v
5	Iron (atomic radius 0.123 \AA) has BCC crystal structure whose lattice constant is _____	0	4.587 \AA	2.314 \AA	0.2840 \AA
6	The correct order of increasing strength (in terms of its cohesive energy) of the chemical bonds are	covalent bond > ionic bond > van-der waal bond > hydrogen bond	covalent bond > ionic bond > hydrogen bond > van-der waal bond	ionic bond > covalent bond > hydrogen bond > van der waal bond	ionic bond > covalent bond > van -der waal bond > hydrogen bond
7	Which of the following functions represents a simple harmonic oscillation ?	$\sin wt + \sin 2wt$	$\sin wt - \cos wt$	$\sin wt - \sin 2wt$	$\sin^2 wt$
8	In case of a forced vibration, the resonance peak becomes very sharp when the _____	Applied periodic force is small	Restoring force is small	Damping force is small	Quality factor is small
9	The triple point of water is _____	273.16°C	273.16°F	273.16K	0.15K
10	Which of the following pairs have same dimensions?	specific heat and latent heat	Impulse and momentum	surface tension and force	moment of inertia and torque
11	A piece of molten ice is placed in a beaker covered with a water glass. How many phases are present in the system ?	0	1	2	3
12	The sulphur system has four phases : rhombic , monoclinic, liquid and vapour sulphur. It is	One - component system	Two-component system	Three-component system	Four-component system
13	Which of the following statement is/are correct?	Ultraviolet spectra of compounds are usually determined either in the vapour phase or in solution	Quartz cells are generally used for the determination of spectra in gas phase	Quartz cells of 1 cm square are commonly used for the determination of spectra in solution	All are correct
14	A change in frequency by scattering (Raman Effect) occurs due to _____of energy between the incident photon and the scattering molecule.	Release	Absorption	Exchange	None of these
15	Which of the following mononuclear carbonyls does not obey EAN rule ?	$\text{Fe}(\text{CO})_5$	$\text{Ni}(\text{CO})_4$	$\text{Cr}(\text{CO})_6$	$\text{V}(\text{CO})_6$
16	Expression of energy for a particle in one-dimensional box is	$E = n^2h^2/8ma^2$	$E = n^2h^2/4ma^2$	$E = n^2h/8ma^2$	$E = nh^2/8ma^2$
17	Total amount of energy emitted by a perfectly black body per unit area per unit time is directly proportional to	T	T^2	T^4	T^3

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18	LPG(Household gaseous fuel) is mainly a mixture of	Methane + Ethane	Acetylene + O ₂	Butane + Isobutane	Acetylene + H ₂
19	Absorption of white light by KMnO ₄ solution results in a purple coloration. This is due to	Absorption of green component in the white light	Absorption of purple component in the white light	Absorption of red component in the white light	None is correct
20	Which of the following methods can be used to increase the Octane rating of gasoline?	Adding branched - chain alkanes	Adding tetraethyl lead	Adding aromatic hydrocarbon	All of these
21	A polymer in the cell which can duplicate itself is	Protein	DNA	NAD	FMN
22	Bioluminescence is an example of transformation of energy of cell into	Kinetic energy	Heat energy	Radiant energy	Light energy
23	Science of ageing is called	Chronology	Gerontology	Odontology	Gynaecology
24	Cellulose is a	Disaccharide	Trisaccharide	Polysaccharide	Monosaccharide
25	Animals living on sea floor are called	Plankton	Benthic	Pelagic	Nekton
26	The kingdom of unicellular eukaryotes is	Monera	Protista	Archaeobacteria	Plantae
27	Herbivores occupy which trophic level in food chain ?	First	Second	Third	Fourth
28	A non -renewable resource is	Forest	Coal	Water	Light
29	In pineapple and jackfruit, edible part is	Pericarp and thalamus	Peduncle and perianth and pericarps	Pericarp and placenta	Fleshy peduncle only
30	Technique of growing plants without soil in nutrient solutions is called	Aquaculture	Tissue Culture	Parthenogenesis	Hydroponics
31	Program which is readily available for computer users as a part of software package is classified as	Library program	Program library	Software library	Directory library
32	Type of software which is designed for users to customize the program is	Open-source software	Freeware	Shareware	macros
33	Part of a hard disk which contains a small program that runs when you start the computer	File allocation table	File system	File cluster	Boot sector
34	Memory of computer which is used to speed up the computer processing is	ROM	Cache memory	BIOS	RAM
35	An intermediate between computer hardware and software is	Desktop	Interface	Firmware	System software
36	Which of the following is correct application of data mining?	Market Analysis and Management	Corporate Analysis & Risk Management	Fraud Detection	All of the above
37	Artificial Intelligence is about _____	Playing a game on Computer	Making a machine Intelligent	Programming on Machine with your Own Intelligence	Putting your intelligence in Machine
38	Communication between a computer and a keyboard involves _____ transmission.	Automatic	Half-duplex	Full-duplex	Simplex
39	The full form of Malware is _____	Malfunctioned Software	Multipurpose Software	Malicious Software	Malfunctioning of Security
40	An internet service that allows the user to move a file.	FTP	Telnet	UseNet	Time Sharing
41	The stable nucleus that has 1/3 the radius of ¹⁸⁹ O _s is	⁷ Li	¹⁶ O	⁴ He	¹⁴ N

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42	The binding energy of a light nucleus is given by $B(A, Z) = 16A - 20A^{2/3} - \frac{3}{4}Z^2A^{-1/3} + 30\frac{(N-Z)^2}{A}$ The value of Z of the most stable isobar is	$\frac{A}{2} \left(1 - \frac{A^{2/3}}{160}\right)^{-1}$	$\frac{A}{2}$	$\frac{A}{2} \left(1 - \frac{A^{2/3}}{120}\right)^{-1}$	$\frac{A}{2} \left(1 - \frac{A^{1/3}}{64}\right)$
43	In the nucleus shell model J^π values are $0^+, 2^+, 4^+, \dots$. The corresponding energies are 0, 4, ..., 500 KeV. If there is transition takes place from 12^+ to 10^+ , then calculate the energy released in KeV unit	10.2	20.5	30.67	30
44	The electric quadruple moment of a nucleus is $\frac{2J-1}{2(J+1)} \langle r^2 \rangle$. Given that $r_0 = 1.2$ fm, $\langle r^2 \rangle = \frac{3}{5}r_0^2A^{2/3}$ and 1 barn = 10^{-28} m ² . The quadruple moment of ^{27}Al is	0.06barn	0.044 barn	0.02barn	none of these
45	Consider the spontaneous emission of α -particle from ^{232}U . The kinetic energy of the α -particle if the energy released is Q	57/58Q	27/28 Q	47/48 Q	67/68 Q
46	The differential cross-section for scattering by a target is given by $\frac{d\sigma}{d\Omega} = a^2 + b^2 \cos^2\theta$. The total cross-section is	$2\pi(a^2 + b^2)$	$2\pi(a^2 + b^2/3)$	$4\pi(a^2 + b^2)$	$4\pi(a^2 + b^2/3)$
47	According to shell model, the nuclear magnetic moment of the $^{27}_{13}\text{Al}$ nucleus is (Given that for a proton $g_p = 1$, $g_n = 5.586$, and for a neutron $g_p = 0$, $g_n = -3.826$)	- 1.913 μ_N	14.414 μ_N	4.793 μ_N	0
48	What should be the minimum energy of a photon for it to split an α -particle at rest into a tritium and a proton ? (Given the masses of ^4_2He , ^3_1H and ^1_1H as 4.0026 amu, 3.0161 amu and 1.0073 amu respectively. 1 amu \sim 931.5 MeV.	32.2 MeV	3 MeV	19.4 MeV	931.5 MeV
49	The difference be in the Coulomb energy between the mirror nuclei $^{49}_{24}\text{Cr}$ and $^{49}_{25}\text{Mn}$ is 6.0 MeV. Assuming that the nuclei have a spherically symmetric charge distribution and that e^2 is approximately 1.0 Mev - fm, the radius of the $^{49}_{25}\text{Mn}$ nucleus is	4.9×10^{-13} m	4.9×10^{-15} m	5.1×10^{-13} m	5.1×10^{-15} m

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50	The energy release in fission assuming that three prompt neutrons are released when the fission occurs in the fission process: $^{235}\text{U} + ^1_0\text{n} \rightarrow ^{236}\text{U}^* \rightarrow ^{141}\text{Ba} + ^{92}\text{Kr} + 3^1_0\text{n}$ (Given the masses of ^{235}U , ^1_0n , ^{141}Ba , and ^{92}Kr as 235.04278 amu, 1.00866 amu, 140.9129 amu and 91.89719 amu respectively. 1 amu \approx 931.5 MeV.)	2000.6 MeV	931.4 MeV	91.9 MeV	200.6 MeV
51	Which device is required for the Internet connection?	Joystick	Modem	CD Drive	NIC Card
52	BIOS is used by	Compiler	Operating System	Loader	Application Software
53	The arranging of data in a logical sequence is called _____	Sorting	Summarizing	Classifying	Reproducing
54	What is the decimal equivalent of the binary number 1 0 1 1 1 ?	21	31	23	32
55	Which of the following is not a font style in MS-Word ?	Bold	Superscript	Italics	Regular
56	Whst is the shortcut key for 'Paste' ?	Ctrl+P	Ctrl+S	Ctrl+V	Ctrl+X
57	Which of the following is used to play the games speedily ?	Mouse	Keyboard	Joystick	RAM
58	Webcam is an _____ ?	Input device	Processing device	Output device	Input and output device
59	A list of instructions used by a computer is called _____?	Text	Output	CPU	Program
60	What is the full form of UPS ?	United Parcel Service	Uninterrupted Power Supply	Uniform Product Support	Under Power Supply
61	Integrated Guided Missile Development Plan (IGMDP) was envisioned in 1983 by former President Dr APJ Abdul Kalam to develop five missiles under this plan. Which are the two missiles in the given list that were included in this plan ?	Agni	Prithvi	Barak -8	BrahMos
62	Which aircraft was used by Indian Air force for airstrike of terror camps in Balakot in Pakistan on 26 Feb 2019 ?	MiG-29	Jaguar	Sukhoi Su-30	Mirage 2000
63	Tick the name of first indigenously built nuclear powered submarine under the Advanced Technology Vessel project	INS Kalvari	INS Arihant	INS Chakra	INS Sindhushashtra
64	What is the name of India's first indigenous aircraft carrier, which is being built at Cochin ?	Virat	Veera	Vikrant	Vikram

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65	Which weapon system in the given list was most effective for continuous bombardment of enemy positions on mountain peaks so as to support the Infantry soldiers to launch their uphill ground attack during Kargil War (May to July 1999)?	Fighter aircrafts	Bofors and other Field Guns of Artillery	Armoured Tanks	Attack Helicopters
66	Border Roads Organisation opened a 360 feet long suspension bridge in Jan 2020. Name of river on which this bridge was built	Teesta	Dibang	Manas	Lohit
67	Which modern fighter jets were officially inducted in to the Indian Air Force fleet in Haryana's Ambala on 29 July 2020 ?	F- 16	Rafale	Tejas MK1	Sukhoi -57
68	Tick the Main Battle Tank recently procured from Russia as the frontline tank for the Army.	T -55	T-72	T-90	Leopard
69	Which is the first indigenously developed Main Battle Tank ?	Arjun	Chetak	Challenger	Merkava
70	Which is award given to the persons of Armed Forces for gallantry in the face of the enemy ?	Param Vir Chakra (PVC)	Ashok Chakra (AC)	Param Vishisht Seva Medal (PVSM)	Uttam Yudh Seva Medal (UYSM)
71	Which planet has a revolution period shorter than its rotation period ?	Jupiter	Venus	Mars	Uranus
72	What is true about Polar Satellite Launch Vehicle (PSLV) ?	It was developed and operated by indigenously in India	It was developed in collaboration with Russia	It was developed in collaboration with USA.	It was developed in collaboration with USA & UK.
73	The largest ever survey of stars in the Milky Way galaxy has been conducted by which satellite of European Space Agency (ESA) ?	Gaia	Planck	Herschel	Rosetta
74	Who is the second woman of India origin to fly on a NASA spacecraft ?	Anousheh Ansari	Kalpana Chawla	Shawna Pandya	Sunita Williams
75	What was the name of first successful human spaceflight ?	Sputnik 1	Sputnik 2	Apollo 1	Vostok 1
76	The location of sun on the first day of spring is called	zenith	vernal equinox	horizon	equator
77	What was the name of the rover of Chandrayan 2 mission of ISRO ?	Vikram	Pragyan	Bahubali	Sivan
78	Scientists have detected gravitational waves in fabric of space time predicted by Albert Einstein using LIGO. What does LIGO stand for ?	Laser Interferometer Gravitational-Wave Observatory	Laser Interferometer Gravity-Wave Observatory	Laser Interceptor Gravitational-Wave Observatory	Light Interferometer Gravitational-Wave Observatory
79	The "Event Horizon" is an astronomical term related to	Telescope	Sun	Black hole	Earth
80	A Foreign satellite of which country did ISRO launch on national science day, 2021 ?	Srilanka	Bangladesh	Brazil	Russia
81	The term 'Isostasy' was coined by	James Thomson	William Smith	Charles Lyell	Clarence Dutton
82	The Scale of the toposheet number E45C1 is	1 : 10,00,000	1 : 2,50,000	1 : 50,000	1 : 25,000
83	The time taken by sunlight to reach the Earth is	8 minute 20 second	20 minute 8 second	12 minute 8 second	12.8 second
84	In an earthquake, greatest damage is caused by	P wave	S wave	L wave	Both P and S waves

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85	The planet that rotates from east to west	Mercury	Venus	Mars	Jupiter
86	The hardness of finger nail is	1.5	2.5	3.5	4.5
87	The nonmetal that conducts electricity is	Graphite	Gypsum	Calcite	Heulandite
88	Electrum is a natural alloy of	Gold and zinc	Gold and silver	Silver and zinc	Silver and copper
89	The standard thickness of a thin section is	5 μ	10 μ	20 μ	30 μ
90	The size of silt is	< 0.004 mm	0.004 - 0.063 mm	0.004 -0.05 mm	0.063-0.10 mm
91	Which of the following are plantation crops?	Rice and maize	Wheat and pulses	Tea, coffee, banana and sugarcane	None of the above
92	The three major cropping seasons of India are :	Aus, Aman and Boro	Rabi, Kharif and Zaid	Baisakh , Paus and Chait	None of the above
93	Which is the main food crop of the eastern and southern part of the country ?	Rice	Wheat	Maiza	Sugarcane
94	Rearing of silk worms for the production of silk fibre is known as :	Sericulture	Aquaculture	Apeculture	Pisciculture
95	Which of the following is known as golden fibre ?	Cotton	Jute	Hemp	Silk
96	Which one of the following is a rabi crop ?	Rice	Milletts	Gram	Cotton
97	Which one of the following is announced by the government in support of a crop ?	Maximum support price	Minimum support price	Moderate support price	Influential support price
98	Primitive subsistence farming is also known as :'	Mixed farming	Co operative farming	Slash and burn agriculture	Commercial farming
99	The largest tea producing state of India is	Karnataka	Assam	Andhra Pradesh	Arunachal Pradesh
100	How many Agro-Climatic zones are there in Odisha ?	2	6	10	14
101	Which of the following is not true about the Revolt of 1857 ?	It began at Meerut on 10 th May 1857	Mangal Pandey had led it at Meerut on the issue of Greased Cartridge.	Bahadur Shah was recognized by the rebels as the leader.	Mostly the Bengal Army of the company rose in revolt.
102	Which of the following was not related to the Indian Councils Act of 1861 ?	The Imperial legislative Council came into existence in India.	Non-official members could be added to the Executive Council of the Governor -General.	The Governor-General could add non-official Indians in the Council.	The Imperial Legislative Council had control over the budget
103	Which of the following was the main objective of the Vernacular Press Act of 1878 ?	It allowed Indians to publish newspapers in Vernacular languages.	It attempted to curb the freedom of Press.	Indian nationalists agitated against this Act.	The Act was repealed in 1882.
104	Which of the following was not an objective of the British Foreign Policy in India ?	Protection of Indian Empire from the foreign powers.	Expansion of British commerce beyond the natural territories of India.	Trrritotal conquests outside India.	Imparting modern military training to the Indian Soldiers.

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105	Which of the following was not true about the Treaty of Gandamak in 1879 ?	This was signed to bring peace between India and Afghanistan	The British kept a Resident at Kabul	As per the Treaty Lord Lytton was replaced by Lord Ripon.	The British were allowed to have control over Afghanistan's foreign policy
106	Where were the modern jute mills set up in India ?	Maharastra	Gujarat	Bengal	Assam
107	Who among the following was a founder of the East India Association in London in 1866 ?	Annie Besant	Dadabhai Naoroji	Justice M. G. Ranade	Surendranath Banerjee
108	Who among the following regarded the Vedas as infallible ?	Swami Vivekananda	Isvar Chandra Vidyasagar	Raja Rammohan Roy	Swami Dayanand Saraswati
109	Where was Assam placed as per the decision of the Partition of Bengal in 1905 ?	East Bengal	West Bengal	Bihar & Odisha division of Bengal	Assam was separated from the Bengal Presidency.
110	Which of the following was not true about the Utkal Sammilani of Odisha ?	It was founded in 1903	Madhusudan Das was its main founder.	It restricted members from joining the Indian National Congress.	It demanded the amalgamation of odia speaking tracts under one political administration.
111	Which of the following is not true about the ancient texts of India ?	The Rig Veda is the earliest of all Vedic texts.	The Rig Veda contains both prayers and rituals.	The Upanishads contain philosophical speculations.	Panini's writings illustrate the rules of Sanskrit grammar.
112	Which of the following is not true about the Sangam literature?	It comprised prose literature	It is in Tamil language.	Its final compilation may have been completed by the sixth century A.D.	The chiefs and kings had patronized its compilation.
113	Which of the following is not true about the writing of Sandhyakara Nandi ?	It was titled as Ramacharita.	It is as old as Panini's Grammar.	It narrates the story of conflict between the Pala King and his Kaivarta subjects.	It contributed to the tradition of biographical writings in India.
114	Which of the following period is significant for the beginning of agriculture ?	Paleolithic Age	Mesolithic Age	Neolithic Age	Iron Age
115	Which of the following excavations have yielded Roman objects in Odisha.	Excavations at Shishupalgarh	Excavations at Hathi Gumpa	Excavations at Lalitagiri	Excavations at Dhuli
116	Which ruling dynasty in Odisha had many Queens, who ruled the Kingdom?	The Shailodbhavas	The Bhauma Karas	The Chedis	The Kesharis
117	Which of the following is true about the Madalapanji?	It was started by the Ganga Kings.	It describes about the military conquests of Kharavela.	It was a work of the 16 th Century A. D.	It is an authentic history of ancient and medieval Odisha.
118	Who among the following was the founder of the Suryavanshi dynasty in medieval Odisha.	Kapilendra Dev	Purushottam Dev	Prataprudra Dev	Ramachandra Dev

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119	Which of the following is not true about the Satavahanas ?	They succeeded the Mauryas in the Deccan.	Their rule coincided with the rule of the Andhras.	They defeated the Kanvas and established their power in parts of Central India.	They were able to conquer Delhi.
120	Which of the following is not true about Charaka ?	He was an expert on medicine.	His writing is like an encyclopedia of Indian medicine.	His book contains the names of a large number of plants and herbs of the time.	He mentioned as many as 121 implements used in surgery.
121	Write the full form of OSDMA	Odisha State Disaster Mitigation Authority	Odisha Drought Management Authority	Odisha State Disaster management Authority	Odisha Disaster management Authority
122	The Mahanadi catchment area occupies, how much percentage of the geographical area of Odisha ?	53.34	35.75	43.24	42.15
123	Bhitarakanika is famous for	Port	Tiger reserve	Mangrove forest	Crocodile breeding centre
124	The district of Odisha with highest mining area.	Keonjhar	Sundargarh	Jharsuguda	Anugul
125	Average water resource available of the Mahanadi basin is.	73.00BMC	56.00BMC	35.00BMC	115.00 BMC
126	The south west monsoon season extends from	May - September	June - September	June - October	June to August
127	The Mahendragiri peak is in which of the following district of Odisha.	Mayurabhanj	Koraput	Keonjhar	Gajapati
128	The oldest mountain range of India.	The Himalayas	The Eastern Ghats	The Aravalli	The Satpura
129	The highest export destination of india	UAE	USA	China	Australia
130	Which of the following does not contribute for global warming.	Methane	Hydrogen	Water vapour	Carbon dioxide
131	Who was the Chairman of the First Commission on Centre-State Relations ?	Justice R. S. Sarkaria	Justice R. S. Pathak	Justice M. M. Punchi	Justice Y . V. Chandrachud
132	Which Article to the Constitution of India provides for 'Organisation of Village Panchayats' ?	Art. 38	Art . 40	Art. 42	Art. 44
133	What is the minimum number of Members required for the composition of a State Legislative Assembly as per the Constitution of India ?	40	50	60	80
134	The Directorate in the State Administration is what type of Agency ?	Policy - Making Agency	Staff Agency	Statutory Agency	Executive Agency
135	Which among the following is NOT a feature of Panchayati Raj Institutions ?	Constitutional Status	Periodical Election	Mandatory provision	Concurrent List Subject
136	What is the total number of Community Development Blocks in Odisha ?	03	30	314	318
137	Who is the Chief Executive Officer of the Zilla Parishad in Odisha ?	Project Director, DRDA	Chairman , Zilla Parishad	Collector & District Magistrate	Assistant Project Director, DRDA
138	The Union Council of Ministers, including Prime Minister, shall not exceed 15% of the total membership of which body ?	House of the People	Council of States	Both	None
139	Which body recommends the names for the appointment of Judges in the High Court ?	Union Public Service Commission	State Public Service Commission	National Judicial Appointments Commission	High Court Bar Association
140	The Right to Education was inserted by which Constitution Amendment Act ?	85 th	86 th	87 th	88 th

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141	NEW START Treaty signed by US and Russia in 2010 is also known as	Vienna Treaty	Prague Treaty	Helsinki Pact	Paris Summit
142	The 'Tragedy of Commons' propounded by Garret Hardin is related to	Rising terrorism in Middle East	Devastating consequences of Nuclear weapons	Increasing population growth and its strain on carrying capacity of the earth	spread of pandemic pathogens
143	Quadrilateral Security Dialogue known as QUAD is mainly arraigned against	USA	France	Taiwan	China
144	India declined to sign Nuclear Non-Proliferation Theaty (NPT) since its inception on the ground that	It is discriminatory and based on inequality of states	India always vouchsafes for peace	India always wants to transfer the knowledge and technology of nuclear warpons to other countries	India never believes in a world free of weapons of mass destruction
145	While the former governments in India since independence consider Diaspora as burdensome, the present government at centre considers it	invidious attack on India's long - standing advocacy of non-aligned foreign policy	useless and unnecessary wastage of time and resources	interference into the sovereignty of another state	asset to be appropriated rightly for the development of the home state
146	India's economic planning cannot be said to be	Indicative	Imperative	Democratic	Decentralised
147	Which of the following does not come under the purview of GST in India ?	Agricultural products	Gems and jewellery	Pharmaceutical products	Petroleum products
148	The contribution of the agricultural sector to the total Gross Domestic Product in India is	Increasing	Decreasing	Remaining constant	Initially increased and then started decreasing
149	Who mints coins in India ?	RBI	SBI	Ministry of Finance	Department of Economic Affairs
150	What is the name of Odisha's Agricultural Policy, 2020 ?	ENAM	SAMRUDHI	KALIA	BSKY