-: SSC HS Level Main Exam 2023 Practice Set :-

Answers with Explanation

1. (b) $0.7 + \sqrt{0.16}$ FIERING = 0.7 + 0.4 = 1.16 $1.02 - \frac{0.6}{0.6}$ 24 = 1.02 - 0.025 = 0.995 $1.2 \times 0.83 = 0.996$ $\sqrt{1.44} = 1.2$ 7 Hence, the greatest number $=\sqrt{1.44}$ (a) Second number 2. 8 $= \frac{\text{HCF} \times \text{LCM}}{\text{First number}}$ $=\frac{18\times378}{54}=126$ 3. (d) Expression $=1+\frac{1}{1+\frac{1}{2}}$ ৰ্জা গুৰায়ে 9 $=1+\frac{1}{\underline{2+1}}=1+\frac{2}{3}=\frac{3+2}{3}=\frac{5}{3}$ 4. (c) $\frac{1}{\sqrt{3} + \sqrt{4}}$ $=\frac{1}{\sqrt{3}+\sqrt{4}}\times\frac{\sqrt{4}-\sqrt{3}}{\sqrt{4}-\sqrt{3}}$ $=\frac{\sqrt{4}-\sqrt{3}}{4-3}=\sqrt{4}-\sqrt{3}$ Similarly $\frac{1}{\sqrt{4} + \sqrt{5}} = \sqrt{5} - \sqrt{4}$... so on : Expression $=\sqrt{4}-\sqrt{3}+\sqrt{5}-\sqrt{4}+\sqrt{6}-\sqrt{5}+\sqrt{7}-\sqrt{6}+$ $\sqrt{8} - \sqrt{7} + \sqrt{9} - \sqrt{8}$ $=\sqrt{9}-\sqrt{3}=3-\sqrt{3}$ 5. (c) Male employees = xFemale employees = y \therefore (x + y) 12000 = x × 15000 + y × 8000 \Rightarrow (x + y) × 12 = 15x + 8y $\Rightarrow 12x + 12y = 15x + 8y$ 11. (c) $A = P \left(1 + \frac{R}{100} \right)^T$ দ্য গুৰাজ্য \Rightarrow 3x = 4y

$$\Rightarrow \frac{x}{y} = \frac{4}{3} \Rightarrow x: y = 4:3$$
(c) $a: b = c: d$

$$\Rightarrow \frac{a}{b} = \frac{c}{d} = \frac{ma}{mb} = \frac{nc}{nd}$$

$$\Rightarrow \frac{a+c}{b+d} = \frac{ma+nc}{mb+nd}$$
(c) Required percentage
$$= \frac{24}{40} \times 100 = 60\%$$
(d) If the marked price of watch be x, then
$$x \times \frac{90}{100} = \frac{450 \times 120}{100}$$

$$\Rightarrow x = \frac{450 \times 120}{90} = ₹ 600$$
(d) Effective discount
$$= 25 + 15 - \frac{25 \times 15}{100}$$

$$= 40 - 3.75 = 36.25\%$$

$$\therefore CP \text{ for buyer}$$

$$= (100 - 36.25)\% \text{ of } 800$$

$$= \frac{63.75 \times 800}{100} = ₹ 510$$

$$\therefore \text{ To gain } 20\%,$$

$$SP = ₹ \left(\frac{120 \times 510}{100}\right) = ₹ 612$$
Let the list price be ₹x.

$$\therefore 90\% \text{ of } x = ₹612$$

$$\Rightarrow \frac{90x}{100} = 612 \Rightarrow x = \frac{61200}{90} = ₹ 680$$

10. (d) P + S.I. for 5 years = 5200 ...(i) P + SI for 7 years = 5680 ...(ii) On subtracting equation (i) from (ii), SI for 2 years = 480 ∴ SI for 1 year = 240 ∴ From equation (i), P + 5 × 240 = 5200 ⇒ P = 5200 - 1200 = ₹4000 ∴ R = $\frac{SI \times 100}{T \times P} = \frac{240 \times 100}{1 \times 4000} = 6\%$ 11. (c) A = P $\left(1 + \frac{R}{T}\right)^{T}$

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 \Rightarrow 30000 + 4347 $= 30000 \left(1 + \frac{7}{100} \right)^{\mathrm{T}}$ দিন গুৰায়ে $\Rightarrow \frac{34347}{30000} = \left(\frac{107}{100}\right)^{\mathrm{T}}$ $\Rightarrow \frac{11449}{10000} = \left(\frac{107}{100}\right)^2 = \left(\frac{107}{100}\right)^{\mathrm{T}}$ \Rightarrow Time = 2 years 12. (d) (A + B)'s 1 day's work $=\frac{1}{12}$ (B + C)'s 1 day's work = $\frac{1}{15}$ (C + A)'s 1 day's work $=\frac{1}{20}$ On adding, 2(A + B + C)'s 1 day's work $=\frac{1}{12}+\frac{1}{15}+\frac{1}{20}$ দ্যা গুৰায়ে $=\frac{5+4+3}{60}=\frac{1}{5}$ \therefore (A + B + C)'s 1 day's work = $\frac{1}{10}$.: B's 1 day's work $=\frac{1}{10}-\frac{1}{20}=\frac{2-1}{20}=\frac{1}{20}$ \therefore B alone can do the work in 20 days. 13. (a) Time taken to fill the $\frac{3}{5}$ of the cistern = 60 seconds \therefore Time taken in filling $\frac{2}{5}$ part দ্যাগ্রুরায়ি $=\frac{60\times5}{3}\times\frac{2}{5}=40$ seconds 14. (b) Let the first pipe be closed after x minutes $\therefore \frac{x}{20} + \frac{18}{30} = 1$ $\Rightarrow \frac{x}{20} = 1 - \frac{18}{30} = 1 - \frac{3}{5} = \frac{2}{5}$ $\Rightarrow x = \frac{2}{5} \times 20 = 8$ minutes. 15. (b) Speed of train $=\frac{\text{Distance}}{\text{Time}}$ $=\frac{10}{12}$ kmph দিন গুৰায়ে 60

$$= \frac{10 \times 60}{12} = 50 \text{ kmph}$$
New speed = 45 kmph
 \therefore Required time $= \frac{10}{45}$ hour (100 kmps)
 $= \frac{2}{9} \times 60$ minutes
 $= \frac{40}{3}$ minutes 20 seconds
16. (a) Let the speed of boat in still water be x kmph
and the rate of stream be y kmph.
 \therefore Downstream rate
 $= (x + y)$ kmph and upstream rate
 $= (x - y)$ kmph.
Now, $\frac{20}{x + y} = 1$
 $\Rightarrow x + y = 20$...(i)
and $\frac{20}{x - y} = 2$
 $\Rightarrow x - y = 10$...(ii)
From (i) and (ii) we have
 $x = 15$ kmph.
17. (b) In the given sequence all the numbers except
100 are perfect cubes of natural numbers. As,
 $8 = 2^3$, $27 = 3^3$, $64 = 4^3$ etc.
18. (b) $x + \frac{1}{4}\sqrt{x} + a^2$
 $= (\sqrt{x})^2 + 2.\sqrt{x} \cdot \frac{1}{8} + (a)^2$
Clearly $a = \frac{1}{8}$.
Then, expression $= (\sqrt{x} + \frac{1}{8})^2$
19. (a) $x + y = 2z$
 $\Rightarrow x - z = 2z - y$
 $\Rightarrow x - z = 2z - y - z = z - y$
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$$\therefore \text{ Area } = \frac{1}{2} \text{ bc sin A}$$
$$= \frac{1}{2} \times 10 \times 10 \text{ sin } 45^{\circ}$$
$$= \frac{50}{\sqrt{2}} = \frac{50 \times \sqrt{2}}{\sqrt{2} \times \sqrt{2}} = 25\sqrt{2} \text{ cm}^{2}$$

30. (b)

 $B \xrightarrow{60^{\circ}} D$

Side
$$=\frac{40}{4} = 10 \text{ cm}$$

AB = AD = 10 cm
 $\angle ABD = \angle ADB = 60^{\circ}$
 \therefore Area of the rhombus
 $= 2 \times \frac{\sqrt{3}}{4} \times (AB)^{2}$
 $= 2 \times \frac{\sqrt{3}}{4} \times 10 \times 10$
 $= 50\sqrt{3} \text{ cm}^{2}$

- (a) Pound and Yen are currencies of different countries. Similarly, Polo and Hockey are names of different games.
- 32. (b) Cloth is woven from thread and mesh is made from wire.
- 33. (c) Love is antonym of Hate. Similarly, Proud is antonym of Humble.
- (b) Ass is considered as Timid. Fox is considered as Cunning.
- 35. (c) Spacious means having or providing a lot of space. Spacious denotes capacity. Scanty means small in size or amount. Thus, Scanty denotes scarcity.



Here B's sex is not clear but C and D both are children (daughter and son respectively) of A (male) and B. Hence, obviously B is A's wife (i.e. female). Hence B is sister in law (Bhabhi) of brother (E) of her husband (A).

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All books are pictures.

Achievers





Hence, that he would never is the right usage.

She said, "I will teach you English." (D.S.) She said that she would teach me English.

64. (a) I were will replace I am

in –

(I.S.)

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Wish is most commonly used in imaginary/ unreal situations. as in -I wish (that) you were here. (But, you are not, and I miss you). দিন গুৰাদেও The tense of the Verb that follows I wish is mostly in Past Tense. In Subjunctive form we use were and not was after wish. Look at the examples given below : I'm very fat. I wish I were thin. I wish I were taller. I wish to be taller. (Present Time) Hence, I wish I were is the right usage. 65. (d) No error. 66. (c) The sentence structure is as follows : It's high time + Subject (you) + Past Verb (went) \rightarrow Refers to the present moment Hence, went is the right usage. 67. (a) Here, a 99-feet long bath for males is the right usage. দিন গুৰায়ে 68. (d) No improvement siphon something + off (Prep.) : to remove money from one place and move it to another, especially dishonestly or illegally; divert 69. (c) emigrant (Noun) : a person who leaves a country to live in another migratory (Adj.) : wandering from one place to another at different times of the year immigrant (Noun) : a person who comes to a country to live there itinerant (Noun) : travelling from place to place, especially looking for a job ন্দাগুৰাজ Here, **emigrant** is the right usage. 70. (a) Here, the poorer of is the right usage. There is a comparison between two workers. 71. (d) He was accused of various offences by his subordinates. (Passive) The sentence is in Simple Past Tense. (Active) 72. (c) Have all the necessary arrangements been made by someone? (Passive) The sentence is in Present Perfect Tense. (Active) 73. (d) Someone has cut the telegraph wires. (Active) The sentence is in Simple Present Tense. (Passive) 74. (d) The chairman of the selection committee for selection said,"We shall finalise \downarrow T \downarrow T Rep.V.Pro.Modal Verb the rest of our team after we have selected the \downarrow \downarrow \downarrow Pro. (Pr.Per.) Pro.Verb

skipper." (D.S.) [Pro. 'we', 'our' stands for 'The chairman of the selection committee] The chairman of the selection committee said that they would finalise দিন হিনামিয় \downarrow $\downarrow \downarrow$ T Rep.VConj.Pro.(we)Modal(shall) the rest of their team after they had selected the skipper. \downarrow \downarrow \downarrow Pro. Verb Modal Pro. (We) (P.Per) (shall) (our) \rightarrow (I.S.) 75. (c) He said to me, "You are getting lazy day by day", \rightarrow (D.S.) \downarrow \downarrow \downarrow Rep.V. Pro. Verb (me)(Pr.Cont.) He told me that I was getting lazy day by day. \rightarrow (I.S.) $\downarrow \downarrow$ \downarrow L Rep.V. Conj.Pro. Verb দ্যান্তবায়ে (you) (P.cont.) 76. (c) "Doctor", the patient cried please tell me how much \downarrow \downarrow \downarrow Rep. V. Verb Pro (S. Pr.) (the patient) time I have." \rightarrow (D.S.) \downarrow \downarrow Pro. H.V. (me) The patient pleaded with the doctor to tell him/her how much \downarrow \downarrow \downarrow \downarrow Rep.V. Inf. Verb Pro (S.Pr.) (me) time he/she had. \rightarrow (I.S.) \downarrow _ ↓ Pro H.V. দিন গুৰায়ে (I) (have) 77. (c) The sentence is in Indirect Speech Past time. So, Past Perfect Tense will be used. Here, had deposited is the right usage. 78. (d) The sentence expresses a longer action in the Past (Hamid, living) before another action (came to visit). So, Past Perfect Continuous Tense had been living is the right usage. 79. (b) $\frac{\text{shortly (Adv)}}{\text{briefly (Adv)}}$: in a few words Use briefly to say that something lasts or is done for a short time or told in a few words. shortly is an old-fashioned use. দ্যাগ্ৰ Here, **briefly** is the right usage. 80. (c) since is followed by a Verb in the Past Tense Here, came is the right usage. 81. (d) at one time (Idiom) : at a period or moment in the Past. So,

Simple Past Tense-owned is the right usage.

Achievers

82.	(d)	abundant (Adjective) : plentiful; more than	92.
		Invuriant (Adjective) • growing thickly and	
		strongly in a way that is attractive : abundant	
		luxury loving (Adjactive) : loving to be	
		autrovagent or aniou the luvuring to be	
		lowely (Adjusting) a heavy find	
		rich (Adjective) : beautiful	
		property	
83.	(c)	ridicule (Noun) : unkind remarks that make	
	` `	fun of somebody or something or make him	
		look silly; mockery	93.
		derision (Noun) : a strong feeling that	
		somebody or something is ridiculous and not	
		worth considering seriously	
		humiliation (Noun) : feeling ashamed or stupid	94.
		embarrassment (Noun) : a feeling of shyness	
		condemnation (Noun) : an expression of very	
		strong disapproval	
84.	(a)	commonplace (Noun) : done very often: not	
	()	unusual: existing in many places	
		trite (Adjective) : dull and boring because it	95.
		has been expressed so many times before:	
		banal: not original:	
		clever (Adjective) : intelligent	
		brief (Adjective) : short	96.
85.	(d)	intimacy (Noun) : the state of having a close	
	. ,	personal relationship with somebody	
86.	(c)	distracted (Verb): mentally confused	
87.	(a)	sever (Verb) : to end completely; to become	
	. ,	separated	
88.	(a)	proposition (Noun) : proposal	
89.	(c)	relationship (Noun)	
90.	(a)	successful (Adjective) : achieving your aims	97.
	. ,	or what was intended ; having become popular	
		and/or make a lot of money	98.
		fruitless (Adjective) : producing no useful	
		results ; unproductive	99.
		wasted (Adjective) : unsuccessful	100.
		useless (Adjective) : of no use	
		insufficient (Adjective) : not enough;	
		inadequate	
91.	(c)	disagreement (Noun) : the state of not	
		agreeing to something	
		consensus (Noun) : an opinion that all	
		members of a group agree to	
		accept (Verb) : to take willingly something	
		that is offered formered	
		opinion (Noun) : your feeling or thoughts	101.
		about somebody/ something, rather than a fact;	
		view	
		permission (Noun) : the act of allowing	
		somebody to do something	

2. (c) **dependence** (Noun) : the state of being dependent

autonomy (Noun) : independence; the freedom for a country, a region or an organization to govern itself independently slavery (Noun) : the state of being a slave subordination (Noun) : the state of being subordinate to something submissiveness (Noun) : the state of being willing to yield to the will of another person or a superior force.

- 03. (b) by fits and starts : impulsively and irregularly
 - A sincere student works regularly, not by **fits** and starts

The best option is irregularly.

- 4. (d) **put up with :** to accept somebody/something that is annoying, unpleasant, etc. without complaining
 - cannot **put up with** your constant complaining any longer.
- The best option is tolerate
 5. (a) turn a deaf ear : to ignore or refuse to listen to somebody/something
 - Sheela **turned a deaf ear** to our pleadings. The best option is **disregard**.
- 6. (b) opinionated

opinionated (Adj.) : having very strong opinions that you are not willing to change plaintive (Adj.) : sounding sad; mournful undoubtable (Adj.) : incapable of being doubted; unquestionable
secular (Adj.) : not connected with spiritual/ religious matters.

- 07. (c) The misspelt word is **maginificent** The correct spelling is **magnificent**
- 98. (c) The misspelt word is **superseed** The correct spelling is **supersede**
- 99. (c) SRPQ
 100. (a) flora
 flora (N.) : the plants of a particular area, type of environment or period of time fauna (N.) : the animals living in an area or in a particular period of history
 landscape (N.) : everything you can see when you look across a large area of land environment (N.) : the conditions that affect the behaviour and development of somebody/ something.
 101. (a) The ruins of Harrappa were first described in 1842, by Charles Masson in his Narrative of
 - 1842 by Charles Masson in his Narrative of Various Journeys in Balochistan, Afghanistan, and the Punjab, where locals talked of an ancient city extending "thirteen cosses" (about

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25 miles), but no archaeological interest would attach to this for nearly a century. In 1856, General Alexander Cunningham, later director general of the archeological survey of northern India, visited Harappa where the British engineers John and William Brunton were laying the East Indian Railway Company line connecting the cities of Karachi and Lahore. In 1872–75 Alexander Cunningham published the first Harappan seal (with an erroneous identification as Brahmi letters). It was half a century later, in 1912, that more Harappan seals were discovered by J. Fleet, prompting an excavation campaign under Sir John Hubert Marshall in 1921-22 and resulting in the discovery of the civilization at Harappa by Sir John Marshall, Rai Bahadur Daya Ram Sahni and Madho Sarup Vats, and at Mohenjo-daro by Rakhal Das Banerjee, E. J. H. MacKay, and Sir John Marshall. ন্দাগুৰায়ে

- 102. (d) Venus has a maximum surface temperature of 462°C (862°F) making it the hottest planet in the solar system. The high temperature is because of its dense cloud layer.
- 103.(c) At the Faizpur Session of the Congress in December 1936, Pandit Jawaharlal Nehru, in his Presidential Address, referred to the Government of India Act 1935 as "The new Charter of Bondage" which was being imposed upon them despite complete rejection. He said that the Congress was going to the Legislatures to combat the Act and seek to end it.
- 104.(b) In summer, when the barometer falls suddenly, a thunderstorm can be expected, and if it does not rise again upon its cessation, the weather will probably continue unsettled for several days. In summer, when a thunderstorm happens, there is little or no depression of the barometer.
- 105.(b) A-HELP (Accredited Agent for Health and Extension of Livestock Production) programme was launched by the Uttarakhand Chief Minister.

A-HELP are community-based women activists involved in helping livestock farmers avail loans, assisting veterinarians in local departmental work and more.

106. (b) Varada Grameena Bank is a Regional Rural Bank (RRB) named after the Wardha River which is one of the biggest rivers in Vidarbha region in India. It is one of those banks which were amalgamated and newly opened. It has been serving Kumta in Karnataka, providing excellent banks service to those in need.

- 107. (d) Quartz is an abundant mineral in the Earth's continental crust. It is made up of a continuous framework of SiO₄ silicon–oxygen tetrahedra, with each oxygen being shared between two tetrahedra, giving an overall formula SiO₂. There are many different varieties of quartz, several of which are semiprecious gemstones. Most quartz used in microelectronics is produced synthetically. Large, flawless and untwinned crystals are produced in an autoclave via the hydrothermal process. The process involves treating crushed natural quartz with hot aqueous solution of a base such as sodium hydroxide.
- 108.(b) It is a constitutional right. Article 326 (in Part XV) of the Constitution gives this right. It is not a Fundamental right.
- 109.(d) The Ghadar Party, initially the Pacific Coast Hindustan Association, was formed in 1913 in the United States under the leadership of Har Dayal, with Sohan Singh Bhakna as its president. The members of the party were Indian immigrants, largely from Punjab. Many of its members were students at University of California at Berkeley including Dayal, Tarak Nath Das, Maulavi Barkatullah, Kartar Singh Sarabha and V.G. Pingle. The party quickly gained support from Indian expatriates, especially in the United States, Canada and Asia. The party was built around the weekly paper The Ghadar, which carried the caption on the masthead: Angrezi Raj Ka Dushman (an enemy of the British rule). The first issue of The Ghadar was published from San Francisco on November 1, 1913. দ্যাগ্ৰাট
- 110. (b) Tamil Nadu's Cumbum grapes, also known as Cumbum Panneer Thratchai, recently received GI tag. It constitutes 85 percent of the grapes grown in Tamil Nadu. The Cumbum valley also called Kambam Valley, located at the Western Ghats in Tamil Nadu, is known as the 'Grapes city of South India'.
- 111. (d) The Himalaya are among the youngest mountain ranges on the planet and consist mostly of uplifted sedimentary and metamorphic rock. They are Fold Mountains which were formed due to a continental collision or orogeny along the convergent boundary between the Indo-Australian Plate and the Eurasian Plate.
- 112. (c) The iris is a thin, circular structure in the eye, responsible for controlling the diameter and size of the pupils and thus the amount of light

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reaching the retina. "Eye color" is the color of the iris, which in humans can be green, blue, or brown. In some cases it can be hazel (a combination of light brown, green and gold), grey, violet, or even pink. In response to the amount of light entering the eye, muscles attached to the iris expand or contract the aperture at the center of the iris, known as the pupil. The larger the pupil, the more light can enter.

- 113. (b) Trishala was the Mother of Mahavira, the 24th Tirthankara of Jainism, and wife of the Jain monarch, Siddartha of Kundgraam, of present day Bihar. She finds mention in the classical Jain Agamas, the Kalpa sutra, written by Acharya Bhadrabahu (433 - 357 BC), which is primarily a biography of the Tirthankaras.
- 114. (b) The Indian Councils Act 1909, commonly known as the Morley-Minto Reforms, introduced the system of communal electorate in India. It provided that Indian Muslims be allotted reserved seats in the Municipal and District Boards, in the Provincial Councils and in the Imperial Legislature; that the number of reserved seats be in excess of their relative population (25 percent of the Indian population); and, that only Muslims should vote for candidates for the Muslim seats ('separate electorates'). These concessions were a constant source of strife during 1909-47.
- 115. (c) The Regional Pollution Response Exercise, RPREX-2023, was launched recently by the Indian Coast Guard. It will assess the preparedness of the oil exploration companies to handle oil spills and marine pollutions.
- 116. (d) The sixth five year plan had long-term objectives of removal of poverty and the achievement of selfreliance. It also aimed at the achievement of economic and technological self reliance with the help of modernisation.
- 117. (c) The Secretary General is the administrative head of the Secretariat of the Lok Sabha. The post of Secretary General is of the rank of the Cabinet Secretary in the Government of India, who is the senior most civil servant to the Indian Government. The incumbent to the post is appointed by the Speaker of Lok Sabha in consultation with the Prime Minister of India and the Leader of the Opposition in the Lok Sabha.

- 118. (b) Majuli is a large river island in the Brahmaputra river, in Assam. It is the largest river island in the world. The island is formed by the Brahmaputra River in the south and the Kherkutia Xuti, an anabranch of the Brahmaputra, joined by the Subansiri River in the north. Majuli island is accessible by ferries from the City of Jorhat. The island is about 200 kilometres east from the state's largest city —Guwahati. The island was formed due to course changes by the river Brahmaputra and its tributaries, mainly the Lohit. Majuli is also the abode of the Assamese neo-Vaishnavite culture.
- 119. (a) Photosynthesis, process by which green plants and certain other organisms use the energy of light to convert carbon dioxide and water into the simple sugar glucose. The wavelength most effective in conducting photosynthesis is 420nm. Actually, 420nm is on the blue side of the spectrum, which makes up between 1 and 10% of the light needed for photosynthesis. There is a plateau on the blue side when comparing blue wavelength effects on photosynthesis, and 420nm is right on the edge of it. 430nm would be more in the middle of the plateau, making it the safer bet. Plants need red light, and lots of it. Red light contributes to over 90% of photosynthesis. দ্যাগ্ৰাট
- 120.(c) The World Homeopathy Day is celebrated each year on April 10 to pay tribute to homoeopathy and its contribution to the world of medicine. The day is observed on the birth anniversary of German physician Dr Christian Friedrich Samuel Hahnemann, the founder of homoeopathy. Homeopathy is one of the popular alternative medical systems in India.
- 121.(d) Complex Instruction Set Computer
- 122.(c) MIPS
- 123.(b) Timing signals
- 124.(b) Micro-operation
- 125.(c) Shift registers.
- 126.(a) Instruction code
- 127.(d) Bridge
- 128.(c) bar codes
- 129.(c) PPM
- 130.(c) port type
- 131.(c) computer gaming
- 132.(d) All of the above
- 133.(b) Refresh rate
- 134.(d) Tail towards the user
- | 135.(a) UPCs

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