



SSTSE/14

02142

राज्य विज्ञान प्रतिभा खोज परीक्षा, 2014

Booklet Sl. No

State Science Talent Search Examination, 2014

समय : 2 घण्टे Time : 2 hours

RJ

पूर्णांक : 150 Max. Marks: 150

परीक्षार्थियों के लिए निर्देश Instructions to Candidates

प्रश्नों के उत्तर देने के पहले निम्नलिखित निर्देशों को ध्यान से पढ़िए । Read the following instructions carefully before you answer the questions.

- परीक्षा के प्रश्नों के उत्तर एक अलग उत्तर-पत्रक पर देने हैं जिसे समयावधि समाप्त होने पर ले लिया जायेगा ।
- अपना रोल नम्बर, जैसा कि आपके प्रवेश-पत्र में दिया गया है, स्पष्ट लिखिए (एक चौखटे में केवल एक अंक) । यह ध्यान रखें कि कोई चौखटा रिक्त न रह जाये । रोल नम्बर में आने वाले शून्य के अंक भी इस पुस्तिका तथा उत्तर-पत्रक पर सही चौखटे में स्थानान्तरित किये जायें ।

उदाहरण :



आगे भी सभी कार्यों के लिए आपका रोल नम्बर वही रहेगा जो कि आपके प्रवेश-पत्र पर दिया गया है ।

- यह परीक्षा छः खण्डों में होगी, जिसके प्रत्येक खण्ड में 25 प्रश्न होंगे अर्थात् कुल मिलाकर 150 प्रश्न हल करने होंगे । प्रत्येक प्रश्न एक अंक का है ।
- च्रूँकि सभी प्रश्न अनिवार्य हैं, इसलिए उत्तर देने के पहले पूरे प्रश्न-पत्र को पढ़ने की कोशिश न कीजिए ।

- Answers are to be marked on the separate Answer Sheet which will be collected after the time is over.
- Write your Roll No. very clearly (only one digit in one block) as given on your Admission Card. See that no block is left unfilled and even zeros appearing in the Roll No., if any, are correctly transferred to the appropriate blocks on the booklet and on the Answer Sheet.

Example :

R J 0 1 1 8 2

For all subsequent purposes, your Roll No. shall remain the same as given on the Admission Card.

- This test is in SIX parts. Each part consists of 25 questions. In all, 150 questions are to be attempted. Each question carries one mark.
- Since all the questions are compulsory. do not try to read through the whole question paper before beginning to answer it.

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- पहले प्रश्न से आरम्भ कीजिए और सिलसिलेवार एक के बाद दूसरे प्रश्न का उत्तर देने की कोशिश तब तक करते जाइए जब तक आप प्रश्नों को समाप्त न कर लें ।
- 6. यदि आप किसी प्रश्न का उत्तर नहीं जानते हैं, तो उस पर बहुत अधिक समय न लगाइए और अगले प्रश्न पर बढ़ जाइए । यदि बाद में समय मिले, तो जिन प्रश्नों को आपने शुरू में छोड़ दिया था उन पर पुन: वापस आकर उनके उत्तर देने की चेष्टा कीजिए ।
- प्रत्येक पृष्ठ के नीचे रफ कार्य के लिए स्थान दिया
 गया है ।
- 8. प्रत्येक प्रश्न का उत्तर पृथक् से दिये उत्तर-पत्रक में उसी प्रश्न के सामने दिये गये विकल्पों में से सही विकल्प वाली संख्या के गोले को H.B. पेंसिल से काला कर देना है । उत्तर-पत्रक के पृष्ठ भाग में दिये गये निर्देशों को भी भली-भाँति पढ लें ।

- Begin with the first question and keep on attempting one question after another till you finish.
- 6. If you do not know the answer to any question, do not spend much time on it and pass on to the next one. If time permits, you can come back to the questions which you have left in the first instance and try them again.
- Space has been provided for rough work at the bottom of each page.
- 8. Answer to each question is to be indicated by blackening, with II.B. pencil, the bubble (circle) of the correct alternative in the separately given Answer Sheet from amongst the ones given for the corresponding question in the test booklet. Please also read the instructions carefully, given on the back side of the Answer Sheet.

अब अगले पृष्ठ पर दिये गये प्रश्नों के उत्तर देना आरम्भ कीजिये ।

Now go to the next page and start answering the questions.

- नोट इस पुस्तिका में अपना रोल नम्बर लिखने और रफ़ कार्य के लिए दिये स्थान पर केवल रफ़ कार्य करने के अतिरिक्त कहीं कुछ न लिखिए ।
- *Note* : Do not write anything anywhere in this booklet except your Roll Number and Rough Work at the places meant for it.

(2)

		(प्रश्न PH)	क विज्ञान 1 से 25) (SICS Nos. 1 to 25)	SSTSE/14 Phy.
1.	The distance travelled (1) 3.5 km	by a car whose speed is 3 (2) 7.5 km	35 kmh⁻¹ in 12 minutes wi (3) 14 km	ll be (4) 28 km
2.	The speed of a uniforr ms ⁻² . (1) 1.0	nly accelerated car chang (2) 1.5	es from 18 kmh ⁻¹ to 36 kn (3) 2.0	nh ⁻¹ in 5x. What is its acceleration in (4) 1.5
3.	The motion of an obje (1) moves on a circula (2) moves on a circula	ct is said to be uniform circ r path with constant speed r path with constant veloci r path with variable speed.	cular motion if the object d	
4.	A bullet of mass 10 g is of the pistol will be (1) 0.5 ms ⁻¹	s horizontally fired with a v (2) 0.4 ms ⁻¹	elocity 150 ms ⁻¹ from a pi (3) 0.3 ms ⁻¹	stol of mass 5 kg. The recoil velocity (4) 0.2 ms ⁻¹
5.	If A and B are two obje (1) A has more inertia (3) A and B have the sa		34 kg respectively then (2) B has more inertia th (4) None of the two has	
6.	The mass of an object (1) 490 N	t is 5 kg. Its weight on the (2) 0.49 N	surface of the earth will bo (3) 4.9 N	e (4) 49 N.
7.	SI unit of pressure is (1) Pascal	(2) Newton	(3) Joule	(4) Watt
8.	Relative density of silv (1) 10.8 × 10 ⁻³ kg m ⁻³		water is 1 gm cm ⁻³ . Dens (3) 10³ kgm m ⁻³	ity of silver is SI unit will be (4) 10.8 × 10³ kg m ^{−3}
9.	Which physical quanti (1) Force	ty has kWh as its unit? (2) Momentum	(3) Energy ter ton	(4) Power
10.	A force of 12 N displac (1) 720 J	ces a body by 60 cm in its (2) 7.2 J	direction. The work done (3) 5 J	on the body will be (4) 0.2 J
11.	An object of mass 2 kg the object in order to b (1) 1 J	-	velocity 2 mx–1. How muc (3) 8 J	th work is needed to be done against (4) 10 J
12.	The minimum time inte	rval needed between the o	riginal sound and the reflec	cted sound for hearing a distinct echo
	(1) 0.2 s	(2) 2.0 s	(3) 0.1 s	(4) 1.0 s
13.	The audible range of s (1) 2 Hz to 20 kHz	ound for human beings is (2) 2 Hz to 2 kHz	(3) 20 Hz to 200 kHz	(4) 20 Hz to 20 kHz
14.	A person claps his han distance of the tower f (1) 30 m	-	nears echo after 0.2s. The (3) 6 m	speed of the sound is 300 ms ⁻¹ . The (4) 3 m
15.	(1) an infinity	a concave mirror is of the (2) between P and F 9.11.2014)	same size, real and invert (3) at F	ed when the object is placed (4) at C 3

16.	The focal length of co (1) –2	nvex lens is 50 cm. Its po (2)–1	wer in dioptre is (3) +2	(4) +1
17.	The refractive index of (1) 2 × 10^8 ms $^{-1}$	glass is 1.5. If the speed (2) 3 × 10^8 ms $^{-1}$	l of light in air is 3 × 10 ⁸ m (3) 4.5 × 10 ⁸ ms ⁻¹	s ^{–1} then its speed in glass will be (4) 6 × 10 ⁸ ms ^{–1}
18.	The process of splittin (1) Refraction	g white light into its sever (2) Dispersion	n constituent colours is cal (3) Scattering	lled (4) Reflection.
19.	The danger indicators (1) Scattering of red lig (3) The wavelength of		because (2) Scattering of red ligh (4) None fo these	t is minimum
20.	Equivalent resistance	petween points A and B ir	n the given circuit will be	
		10 Ω JU	Ang 10 Ω	
	Λ	-	20 Ω	ЮВ
	(1) 40 Ω	(2) 30 Ω	(3) 20 Ω	(4) 10 Ω
21.	Which of the following	terms represents electric	al powr in a circuit?	
	(1) 1² Rt	(2) VIt	(3) 1 ² R	(4) $\frac{V^2}{R}$ t
22.	The electrical energy resistance will be	dissipated per second in	a resistance of 4Ω is 100) J. The current flowing through the
	(1) 25A	(2) 15A	(3) 10A	(4) 5A
23.	The frequency of an al (1) 1/10 second	ternaating current is 50 H (2) 1/100 second	z. In how much time does (3) 10 second	it reverse its directions? (4) 100 second
24.	Which of the following	statements is true on the	basis of the given circuit of	diagram?
			20 Ω	
		+		rrow
			I	

(1) I_1 is maximum (2) I_2 is maximum (3) I_3 is maximum (4) $I_1 + I_2 + I_3 = 0$

30 Ω

25.The magnetic effect of current was discovered by
(1) Faraday(2) Millikan(3) Oersted(4) Thomson

		(प्रश्न CHEN	न विज्ञान 1 से 25) /IISTRY Nos.1 to 25)	SSTSE/14 Chem
1.	The nuclei, which are n (1) isotopes	ot identical but have the s (2) isotones	ame number of nucleons, (3) isobars	are called (4) isoelectronic
2.	Aqueous soloution of w (1) CO ₂	hich of the following com (2) SO ₂	pounds turns red litmus to (3) MgO	blue? (4) SO ₃
3.	The colloidal solution in (1) Gel	n which both dispersed ph (2) Sol	ase and dispersion mediu (3) Aerosol	ım are liquids. is call (4) Emulsion
4.	Aqueous solution of co (1) Al	pper sulphate can be stor (2) Zn	red inmetal vessel. (3) Fe	(4) Ag
5.	Which group of moderr (1) 12	n periodie table contains g (2) 13	as. Liquid and solid nonm (3) 17	etallic elements? (4) 18
6. 7.	Which is correct staten (1) Sodium is non-reac	(2) Scattering of Light nent?	(3) Reflection of Light(2) Non-metals react wit(4) Non-metals do not sh	
8.	Cinnabar is (1) Sulphide	ore. (2) Carbonate	(3) Oxide	(4) Sulphate
9.	Ethanol is changed to (1) Oxidation reaction	ethanoic acid by (2) reduction reaction	(3) Addition reaction	(4) Substitution reaction
10.	(1) Presence of hydrop(2) Presence of hydrop	hilic group hobic groups hobic and hydrophobic gro	ne oily dirt by emulsification oups 13 or better tom	Ce
11.	Which functional group (1) Carboxylic acid	cannot be situated at terr (2) Aldehyde		(4) Ketone
12.	Natural indicator is (1) methyl orange	(2) Phenolphthalein	(3) Litmus	(4) Methyl red
13.	pH of soda water is (1) 7	(2) between 7–9	(3) between 4 – 7	(4) 14
14.	Number of atoms in 40 (1) 6.022 ×10 ²²	grams of He is (2) 6.022 ×10 ²³	(3) 6.022 ×10 ²⁴	(4) 6.022 ×10 ²⁵
15.	Which metal cannot be (1) Mg	extracted from its ore by (2) Zn	reduction using carbon? (3) Cu	(4) Fe
16.	The substance that give (1) CaO	es Bleaching powerder or (2) CaCO ₃	reaction with chlorine is (3) Ca(OH) ₂	(4) CaCl ₂
17.	Number of covalent bo (1) 14	nds in cyclohexane is (2) 16	(3) 18	(4) 20

18.	The substance made u (1) Common salt	p of only one type of eler (2) Diamond	nent is (3) Water	(4) Air
19.	A metalloid with lowest (1) 11	atomic number belongs (2) 12	togroup of perio (3) 13	dic table. (4) 14
20.	Elements present in sa (1) valence electrons	me group of periodic tab (2) atomic radius	le are similar with respect (3) number of shells	to (4) mass number
21.	organic compound is (1) CO ₂	(2) CaCO ₃	(3) Ca(HCO ₃) ₂	(4) (NH ₂) ₂ CO
22.				f stable isotope of oxygen i
	(1) ${}^{12}_{6}C$	(2) $^{13}_{6}$ C	(3) ¹⁴ ₆ C	(4) ${}^{12}_{6}C$ +
23.	Which metal does not (1) Cu	liberate hydrogen gas by (2) Zn	reaction with H ₂ SO ₄ ? (3) Mg	(4) Fe
24.	ores ard (1) Sulphide	e roasted to convert into (2) Carbonate	oxides. (3) Oxide	(4) Halide
25.	The allotropic form of c (1) Coal	arbon that shows conduc (2) Diamond	ctivity is (3) Graphite	(4) Fullerene

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			व विज्ञान	SSTSE/14 Bi
		BIO	1 से 25) LOGY	
2		Questio	nNos. 1to 25)	
1.	The name of the scie (1) Robert Brown	ntist presenting cel theory (2) Leeuwenhoek	is (3) Virchow	(4) Schleiden and Schwann
2.	The growth in the girt (1) Lateral meristem	h of stem or root is due to (2) Apical meristem	which tissue? (3) Intercalary meristem	(4) Parenchyma.
3.	Which tissue is respo (1) Epithelial tissue	nsible for movement in ou (2) Connective tissue	r body? (3) Muscular tissue	(4) Nervous tissue.
4.	The example of gymn (1) Marchantia	osperm plant is (2) Pinus	(3) Marsilea	(4) Chara
5.	Which animal has an (1) Palaemon	open circulatory system a (2) Planaria	nd kidney like organ for ex (3) Ascaris	certion? (4) Pila
6.	Animals of which clas (1) Mammalia	ss have hairs on the skin, s (2) Aves	sweat glands and oil glands (3) Amphibia	s? (4) Reptilia
7.	Diseases caused by b (1) Influenza and den (3) Cholera and tuber	gue fever	(2) AIDS and Cholera (4) Malaria and kala-azar	r
8.	The gas responsible f (1) Chlorofluorocarbo	for depletion of the ozone l n (2) Methane	ayer is (3) Carbon dioxide	(4) Sulphur dioxide
9.	Kharif crop is (1) Gram	(2) Wheat	(3) Pea	(4) Maize
10.	Which animal is used (1) Hydra	for preparing Vermicompo (2) Earthworm	ost? (3) Ascaris	(4) Frog
11.	Which animal is cultiv (1) Oysters	rated for the production of (2) Mussels		(4) Mullets
12.	The variety of honeyb (1) Apis cerana indica	ee used in the commercia a (2) Apis dorsata	l production of honey is (3) Apis florae	(4) Apis mellifera
13.	Pepsin acts as digest (1) Intestine	ive enzyme in which orgar (2) Stomach	n? (3) Liver	(4) Mouth
14.	Breaking down of pyre (1) Ribosome	uvate takes place in which (2) Golgi bodies	cell organism? (3) Lysosome	(4) Mitochondria
15.	The function of platele (1) Transportation of ((3) Controlling blood p	D_2	(2) Storage of food mate (4) Clotting of blood	rial
16.	The plant tissue respo (1) Parenchyma	onsible for movement of wa (2) Phloem	ater and minerals obtained (3) Xylem	from the soil is (4) Collenchyma
17.	The organ that remov (1) Kidney	es nitrogenous waste prod (2) Liver	luct from blood is (3) Lungs	(4) Heart

18.	The thinking part of tl (1) Mid-brain	ne brain is (2) Hindbrain	(3) Forebrain	(4) Spinal cord
19.	The growth of pollen t (1) Geotropism	ube towards ovules shows (2) Chemotropism	which phenomenon? (3) Phototropism	(4) Hydrotropism
20.	Presence of swollen (1) Goitre	neck is the symptom of wh (2) Diabetes	ich desease ? (3) Pellagra	(4) Albinism
21.	Multiple fission type o (1) Earthworm	of reproduction is found in (2) Yeast	(3) Hydra	(4) Plasmodium
22.	The example of unise (1) Hibiscus	exual flower is (2) Papaya	(3) Mustard	(4) Pea
23.	The method of reproc (1) Budding	duction by which Leaf of Bry (2) Binary fission	ophyllum developes into r (3) Multiple fission	new plant is called (4) Vegetative reproduction
24.	Genotypic ratio in mo (1) 2 : 1 : 1	onohybrid cross is (2) 3 : 1	(3) 1:2;1	(4) 1 : 3
25.		s of birds and bats are evid an (2) Analogous organ	ences of (3) Fossils	(4) Embryo



				SSTSE/14 Math
			ाणित 1 से 25)	
		MATH	EMATICS	
		(Question	Nos. 1 to 25)	
1.	_	st number among the follo		
	(1) 0.375	(2) 0.375	(3) 0.375	(4) 0.375
2.	If x $\sqrt[3]{2\frac{93}{125}} = .$ then val	ue of x si		
	(1) $1\frac{1}{5}$	(2) $2\frac{1}{5}$	(3) $1\frac{2}{5}$	(4) $\frac{2}{5}$
3.	If the polynomials ax ³ + value of a is	$-3x^2 - 13$ and $2x^3 - 5x + a$	a are divided by $(x - 2)$ and	I leave the same remainder then the
	(1) 1	(2) 2	(3) $\frac{1}{2}$	(4) $\frac{1}{7}$
4.	The value of k for which (K – 1) x + 4y – 1 = 0 4x + 9 (k + 1) y + 2 =		ar equations has no solutio	on is
	(1) $\frac{4}{3}$	(2) $\frac{5}{3}$	(3) $\frac{16}{9}$	(4) $\frac{25}{9}$
5.		whose one root is 7 and the first conductive (2) $x^2 - 5x - 14 = 0$		$(4) x^2 - 5x + 14 = 0$
6.	If $\frac{2}{3}$, k and $\frac{5}{8}$ k are three	ee consecutive terms of a	an arithmetic progression,	then the value of k is
	(1) $\frac{16}{33}$	$(2)\frac{7}{11}$	$\begin{array}{c} 33 \\ \hline 31 \\ \hline 01 \\ \hline 01$	$(4) - \frac{16}{33}$
7.				ommon difference of this arithmetic
	progression is (1) n + 1	(2) n	(3) 2	(4) 2n + 1
8.	If $\cos 2x = \sin (x - 39^{\circ})$ (1) 40°) and 3x is acute angle th (2) 29°	en value of x is (3) 43°	(4) 90°
9.	If sin A = 3 and $0 < A <$	90° then value of (sec A	+ tan A) (1 – sin A) is	
	(1) $\frac{3}{4}$	(2) $\frac{4}{5}$	(3) $\frac{3}{5}$	(4) $\frac{2}{5}$
10.	length of shadow of a p (1) 30°	pole is $\sqrt{3}$ times the heig (2) 60°	ht of a pole. Angle of eleva (3) 45°	ation of sun is (4) 75°

11. In the following figure. AB || CD ; \angle BPQ = 120° and \angle CRQ = 30°. The value of x is

12.



13. In the given figure, TAS is a tangent to a circle with centre O. If \angle OBA = 32° then value of \angle BAS is



14. In the given figure, two tangents PA and PB are drawn to a circle with centre O from an external point P. CD is the third tangent touching the circle at Q. If PB = 10 cm and CQ = 2 cm, then length of PC is



- 18. Rain water from a roof of dimension 22m × 20 m drains into a cylindrical vessel having diameter of base 2m and height 3.5 cm. If the vessel is just full, then the total rainfall in cm is (1) 3.5 (2) 2.5 (3) 2 (4) 1.5
- **19.**The perimeter of a sector of a circle of radius 5.2 cm is 16.4 cm. Then area of the sector is
(1) 80 cm^2 (2) 21.6 cm(3) 15.6 cm^2 (4) 156 cm^2
- 20. Three metallic spheres of radii 3 cm. 4 cm and 5 cm respectively are melted to form a cone of radius 6 cm. then the height of this cone is

 (1) 24 cm
 (2) 42 cm
 (3) 60 cm
 (4) 18 cm
- **21.** The slant height of a frustum of a cone is 5 cm and the circumferences of its circular ends are 12π cm and 6π cm. (1) 3 cm (2) 4 cm (3) 5 cm (4) 6 cm
- **22.** The mean of the following data is 3.2. Then the value of x is



- 23.If the median of the following data written in ascending order is 16. then value of x is
(1) 16(2) 18(3) 17(4) 15
- 24. A box contains 20 cards which are numbered from 1 to 20. A card is drawn at random from the box. then the probability that it is a perfect square number is
 - (1) $\frac{2}{5}$ (2) $\frac{1}{20}$ (3) $\frac{1}{5}$ (4) $\frac{4}{5}$
- **25.** Two dice are thrown at the same time. The probability that the sum of the numbers appearing on the top of the two dice is 9, is
 - (1) $\frac{9}{36}$ (2) $\frac{1}{6}$ (3) $\frac{2}{9}$ (4) $\frac{1}{9}$ Resonance Educating for better tomorrow

			e pours	SSTSE/14 D to D.		
	5. दिन—प्रतिदिन विज्ञान (प्रश्न 1 से 25)					
	DAY TO DAY SCIENCE					
			Nos. 1 to 25)			
1.	In which of the followi (1) Steel	ing speed of sound is maxin (2) Water	num? (3) Hydrogen	(4) Air		
2.	(1) Germany	ne 'Country of Winds'? (2) India	(3) Denmark	(4) Nepal		
3.	The conventional uni (1) kWh	t for domestic electrical con (2) kWs	sumption is (3) Ws	(4) J		
4.	The speed of sound c (1) decreases	on increasing the temperatu (2) increases	re of the medium (3) remains unchanged	(4) none of these		
5.	The acceleration of a (1) + 9.8 ms ⁻²	$(2) -9.8 \text{ ms}^{-2}$	(3) not fixed	(4) 0 mx^{-2}		
6.	Thermosetting polym (1) terylene	er is (2) PVC	(3) Bakelite	(4) Nylon 6,6		
7.	Which medicine is no (1) Sodium hydrogen (3) Milk of magnesia		(2) Aluminium hydroxide (4) Asprin			
8.	Natural rubber is (1) Polyisoprin	(2) Neoprin	(3) Buna-S	(4) Buna–N		
9.	The factor responsibl (1) Vaporisation of po (3) Presence of oxide		(2) Presence of freons in (4) Greenhouse effect	atmosphere		
10.	The particles bombar (1) Neutron	ded to cause nuclear fissior (2) Deuteron	n are (3) Alpha particle	(4) Beta particle		
11.	Which is not a natura (1) Cotton		(3) Wool tter ton	(4) Dacron		
12.	I. $p(p+2)+1$ is a p II. 12 is a divisor of p Which of the above s	Fr such that $p + 2$ is also a p perfect square number. p + (p + 2), if $p > 3tatement(s) is/are correct?$				
	(1) Only I	(2) Only II	(3) Both I and II	(4) Neither I nor II		
13.	The ratio of A to B is (1) 3 : 4	x : 8 and the ratio of B to C (2) 4 : 3	is 12 : y. If the ratio of A to (3) 1 : 6	 C is 2 : 1, then the ratio of x to y is (4) 1 : 12 		
14.		vards east, took a right turn a ween his starting position a (2) 60 m		ook a left turn and walked 30 m. The (4) 100 m		
15.		oney, you have to save Rs 1 be saved in the month of Oc (2) Rs. 500		nd day Rs. 3 on third day and so on. (4) Rs. 31		
16.				k in 14 days. In how many days can		
	A alone finish the wor (1) 7 days		(3) 21 days	(4) 28 days		
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17.	In binary system numb (1) 35	er 101101 is written in de (2) 45	cimal system as (3) 40	(4) 50
18.	The scientist who prep (1) Dr. Ian Wilmut	ared sheep's clone was (2) S. Cohen	(3) H. Boyer	(4) Watson and Crick
19.	In which marine algae	maximum quantity of iodir	ne is found?	
	(1) dillisk	(2) Spirogyra	(3) Kelp	(4) Ulothrix
20.	Example of totipotent of (1) Nerve cells	cells in a living being is (2) Blastomeres	(3) Epithelial cells	(4) Muscle cells
21.	Which bacteria is usec (1) E. Coli	l to obtain human insulin? (2) Vibrio cholerae	(3) Salmonella	(4) typhi
22.	The technique used for (1) Biotechnology	removal of brain tumor is (2) Tissue culture	(3) Lascr rays	(4) Brachy therapy
23.	Highest amount of which (1) Carbohydrate	ch organic compound is fo (2) Protein	ound in Soyabean? (3) Fat	(4) Vitamin
24.	The structure that trans (1) Cloning	sfers DNA from one anima (2) Explant	al to another is known as (3) Interferon	(4) Vector
25.	The technique applied (1) Chemotherapy	for testing position and ac (2) CT Scan	tivittes of different structur (3) X-ray	res in human body is (4) Biopsy

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				SSTSE/14 GK
	6. वि	ज्ञान सम्बन (प्रश्न	धी साधार 1 से 25)	ण ज्ञान
	GENERA	L KNOWLEDC (Question	BE REGARDIN Nos. 1 to 25)	IG SCIENCE
1.	Weight of an object w (1) Increases	vhen we move it from pole t (2) Decreases	o the equator (3) Remains constant	(4) None of these
2.	The orbit of each pla (1) circular	net of the solar system is (2) parabolic	(3) elliptical	(4) rectangular
3.	30° santing farm 30° santing farm affrendent ray normal	Tool and the second sec		
	The angle of reflectio (1) 60°	n in the figure is (2) 90°	(3) 30°	(4) None of these
4.	Which lens is used to (1) Convex	o remove near-sightedness (2) Planoconvex	? (3) Planoconcave	(4) Concave
5.		appliances are connected ows (2) Uniform voltage is r tion is high		
6.	The process on whic (1) Nuclear fusion	h the energy produced in th (2) Nuclear fission	ne sun is based, is (3) Pair production	(4) None of these
7.	(1) Equal to the weig	oped in a liquid the force of ght of the object ht of the displaced liquid the weight of the displaced		
8.	Hydrocarbon having l (1) Isohexane	highest octane number is (2) n-hexane	(3) Iso-octane	(4) n-octane
9.	The chemical formula (1) C ₂ H ₅ COONa	a related to soap is	(2) CH ₃ (CH ₂) ₁₀ CH ₂ OSO	9₃Na
	(3) CH ₃ (CH ₂) ₁₅ CH ₂ C	OONa	(4) CH ₃ (CH ₂) ₁₁	∕— SO ₃ Na
10.	The organic compou (1) CO ₂	nd used as fire extinguisher (2) C ₆ H ₆	r is (3) COCL ₂	(4) CCL ₄
11.	The role of added gyr (1) Facilitate gel forn (3) Increase the weig		f cement is to (2) Decrease rate of sett (4) Make the cement imp	-
12.	A fuel having highest (1) Hydrogen	thermal value is (2) Petrol	(3) LPG	(4) CNG

