ATOMIC ENERGY EDUCATION SOCIETY MULTIPLE CHOICE QUESTION TEST (AUGUST 2019)

Time: 1 hr.	Class: X, N	MATHEMAT	ICS	MM	1: 40
Name:		Class	s/Sec: R	oll No:_	
Invigilator's Sign:					
Instruction: Write the c	orrect option	in the bracket	t () given again	st the	
corresponding question					
1. A is a proven a) axiom b) lemma		•	er statement.	()
2. Product of the greatest per of the number		ime factor involve	ed in the numbers §	gives the	
a) HCF b) LCM		d) prime factor	rization	()
3. For any two positive inte factor of 'b' is 7, then the le			factor of 'a' is 2 &	the least p	rime
a) 3 b) 7	c) 9	d) 2		()
4) HCF of the smallest prin a) 1 b) 2	ne number and t	the smallest odd c d) 18	composite number i	is:)
 5. 2- √9 is a: a) rational number c) natural number 	b) irrational d) none of th			()
6. For some positive integer a) m b) 2r	•	_	e form: d) m + 1	()
7. Decimal representation of	of — will termin	nate after	decimal places	s	
a) 3 b) 2		c) 4	d) 6	()
8. A cubic polynomial can a) 1 b) 2	have at most	zeros	d) 0	()
9. A real number 'a' is calle		- / -	,	()
		. 2			
	f a quadratic eq	•	= 0, then the value		
a) 0 b) 1		c) -1	d) 3	()
11. The roots of the quadrata a) 6,7 b) -6,-7		-13x + 42 = 0 are: d)-5,-8		()
12. A quadratic polynomial $x^2 - 16$ b) $x^2 + 4x + 4$	whose sum of $x^2 + 4x = 4$	the zeroes is -4.8	& product of zeroes	4 is:)

	_		d by a qua	adratic polyno	mıal. If it leaves a re	maın	der	
4, then the degree a) 1 b) (c) either 1 c	or 0	d) 3		()	
14. Graphical representation of pair of equations $x - 2y + 3 = 0.4x + 6y = 5$ represents two a) parallel lines b) co-incident lines c) intersecting lines d) intersecting lines intersecting at two points (
the other equation	can be:		_		nes is $4x + 8y + 16 =$			
a) $x + 2y - 4 = 0$	b) x +	2y + 4 = 0	c) x +	2y - 8 = 0	d) $x - 2y - 4 = 0$	()	
16. If the pair of e of k is	quations 4:	x + 3y = 10 &	8x + ky	= 20 have infi	nite solutions, then the	he va	lue	
a) – 6	b) 6		c) 5		d) 9	()	
17. If the given pa		-		_	air of equations have	:		
c) always no solut	ion	d) e	ither a un	ique solution	or infinite solutions	()	
18. Sum of the age					years more than thr	ice th	ıe	
a) 12 years				_	d) 11 years	()	
19. If am = bl, the	n the pair o	of equations a	ax + by =	c & lx + my =	n has:			
a) no solutionc) infinite solution	ıs			que solution h the options	'a' & 'b'	()	
20. The positive re		= 9 is			4) O	(`	
a) 3	0) 0		c) 3		d) 0	()	
21. The value of ka) 4	t if kx(x – 2 b) 6	(2) + 6 = 0 has	equal ro c) 24	ots is:	d) – 2	()	
22. When 12 is diva) 4 & 8	vided into 2 b) 1&	-	hat their j	-	then the two parts ard) 6 & 6	e: ()	
	ce of the ro	ots of the qua	adratic eq	uation x ² – ax	x + 1 = 0 has two dist	tinct	real	
roots, then a) $ a = 2$		b) a < 2		c) a > 2	d) 0	()	
24. If the sum of f a) 5	ïrst m term	as of an A.P. i b) 8	is $2m^2 + 3$	3m, then its se c) 19	cond term is: d) 9	()	
25. Mathematician completing the squ		ved a formula	a for solvi	ing a quadratio	e equation by the met	hod	of	
a) Brahma Gupta 26. The roots of the		b) Sridharad c equation 2x			d) Al-Khwarizmi	()	
a) real & equalroo	ots	b) re	eal & une	qual roots		,		
c) imaginary roots	5	a) al	ll of these	opuons		()	

27. If p-1, p+3, 3p a) 2	- 1 are in A.P b) - 4		e of p is: d) - 2			()
28. The sum of first a) n(n+1)	2		oers is d) 2n – 1			()
a) II(II+1)	0) 11	c) ——	u) 211 – 1			()
29. Number of natura a) 197	al numbers bet b) 19) which are divi c) 199	isible by	5 is: d) 200	()
30. If the sequence a a) 2 & 3	$a_n = 2n + 1 \text{ is in}$ b) 1 a		a' &' d' are: c) 2 & 4		d) 3 & 2	()
31. 10 th term of the a) 20	A.P. 3, 0, -3, b) -2		c) -54		d) 0	()
32. If 18, a, b, -3 are a) 10	e in A. P., then b) 15		c) – 15		d) 4	()
33. The 20 th term from a) 42	om the last term b) 15		8, 13, c) 158	,253 is :	d) 162	()
34. ΔABC & Δ DEF a) 40°	are similar tria		c) 80°		d) 100°	()
35. The same ratio of a) Representative fraction (c) Suppressive fraction	f the correspon			raction		o as:	
36. The ratio of the c medians is:	orresponding	sides of two sin	nilar triangles i	s 4:5, the	en the ratio of	`thei	r
a) 4 : 5	b) 16	: 25	c) 2 : √5		d) 5:4	()
37. Perimeters of two QR = 8 cm then YZ		gles ΔΧΥΖ & Δ	A PQR are 60 cr	n & 48 c	m respective	ly. If	•
a) 10 cm	b) 12	cm	c) 5.2cm		d) 11.4cm	()
38. Length of the alti	itude of an equ b) 4 o		e with a side $3\sqrt{c}$ c) 4.5 cm	3 cm is:	d) 5.5 cm	()
39 Two isosceles tria the ratio of their corr	-	_	es and the areas	s are in th	ne ratio 16: 9	l, the	en
a) 4:9	b) 9 :	4	c) 2:3		d) 5 : 2	()
40. In a \triangle ABC, if the in a) $\frac{AB}{CD} = \frac{BD}{DC}$		of $\angle A$ meets BC $\frac{C}{D}$ $c)\frac{A}{A}$	C in D, then: $\frac{B}{C} = \frac{DC}{AD}$	d) $\frac{AC}{AB}$ =	BD DC		

ATOMIC ENERGY EDUCATION SOCIETY :: MUMBAI MCQ TEST –AUGUST -2019

CLASS : X MATHEMATICS TIME: 1 HOUR DATE: 29.08.2019 MAX.MARKS:40

ANSWER KEY

QUESTION NUMBER	CORRECT OPTION	QUESTION NUMBER	CORRECT OPTION
1	b-lemma	21	b-6
2	b-LCM	22	a-4 & 8
3	a-3	23	c- a >2
4	a-1	24	d-9
5	a-rational number	25	b-Sridharacharya
6	b- 2m	26	c- imaginary roots
7	a-3	27	c-4
8	c-3	28	b- n ²
9	a-f(a)=0	29	d- 200
10	c- (-1)	30	d- 3 &2
11	a-6 ,7	31	b-24
12	$b-x^2+4x+4=0$	32	b-15
13	c-either 1 or 0	33	c-158
14	c-intersecting lines	34	c-80°
15	b- x + 2y + 4 = 0	35	a-Representative Fraction
16	b- k = 6	36	a-4:5
17	d-either a unique solution or infinite solutions	37	a-10cm
18	c-10 years	38	c-4.5cm
19	a-no solution	39	a-4:9
20	c-5	40	$a - \frac{AB}{CD} = \frac{BD}{DC}$

ATOMIC ENERGY EDUCATION SOCIETY

MULTIPLE CHOICE QUESTION TEST (AUGUST 2019)

	D: X BJECT: SCIENCE ===================================	=======================================	M.M: 40 TIME: 01 Hours		
Stu	dent Name : Se	ection / Roll No :		7	
Sign	n of Invigilator:	gn of Examiner:			
Cho	oose and write the correct option from the	he choices given	in the [].	_	
1	When one unit of electric charge moves from then the amount of work done in Joules is kno (a) Electric current (c) electric conductance	-	sistance]]
2	Three resistors are connected in series. Two references that the total resistance of the combination is 32 (a) 10Ω (b) 12Ω			[]
3	An ideal voltmeter would have : (a) infinite resistance (c) Resistance equal to the circuit	(b) very low (d) none of the		[]
4	Kilowatt hour is the unit of: (a) Power (b) Potential difference	(c) Force	(d) Electrical energy	[]
5	In series combination, resistance increases du (a) Area of cross section (b) voltage	ue to increase in : (c) length	(d) current	[]
6	What happens when ammeter is connected in (a) open circuited (c) short circuited	parallel: (b) closed c (d) the none		[]
7	The direction of the force on a current carrying on: (a) direction of the current but not on the dire (b) the direction of the magnetic field but not (c) the direction of the electric current as well (d) none of the above	ection of the magne	etic field f the electric current	[]
8	In electric fittings in a house: (a) the live wire goes through the switch (b) the neutral wire goes through the switch (c) the earth wire goes through the switch (d) no wire goes through the switch			[]

9	You have a coil and a bar magnet. You can produce an electric current by n (a) the magnet but not the coil (b) the coil but not the magnet (c) either the magnet or the coil (d) neither the magnet nor the coil	noving:	[]
10	A piece of wire of resistance R is cut into 3 equal parts. These parts are then in parallel. If the equivalent resistance of this combination is R' then the ration (a)3:1 (b) 9:1 (c) 1:3 (d) 1:	o of R/R' is:	[]
11	Two conducting wires of same material and 5 ohm resistance are first conneseries and then in parallel in an electric circuit. The ratio of heat produced in parallel combinations would be:		[]
	(a) 1:4 (b) 1:5 (c) 5:1 (d) 4:	1		
12	The electrical resistivity of a given metallic wire depends upon: (a) its length (b) its area of cross section (c) nature of the material (d) all of these.		[]
13	What is the minimum resistance which can be made using 5 resistors each Ω (a) $(1/5) \Omega$ (b) $(1/10) \Omega$ (c) Ω	of 1/2ohms: (d) 10 Ω	[]
14	Both CO ₂ and H ₂ gases are (a) Heavier than air (b) colourless c) acidic in nature d) soluble in water		[]
15	The chemical formula of lead sulphate is a) Pb ₂ SO ₄ b) Pb(SO ₄) ₂ c) PbSO ₄ d) Pb ₂ (SO ₄) ₃		[]
16	In the reaction, $3O_2(g) + 2H_2S(g) \rightarrow 2H_2O(l) + 2SO_2(g)$ the reducing age a) O_2 b) H_2O c) H_2S d) SO_2	nt is]]
17	When crystals of lead nitrate are heated strongly in a dry test tube a) Crystals immediately melt b) A brown residue is left c) white fumes appear in the tube d) a yellow residue is left		[]
18	In which of the following, heat energy will be evolved?		[]
	a) Electrolysis of water c) decomposition of AgBr in presence b) Dissolution of NH ₄ Cl in water d) burning of LPG	of sunlight		
19	long time	oil for a	[]
	a) Carbon dioxide and Oxygen b) Nitrogen and Helium c) Helium and Oxygen d) Nitrogen and Oxygen			

20	In which of the following pairs, both are a		[]	
	a) KCl, KNO ₃ b) Na ₂ SO ₄ , K ₂ SO ₄	c) CH ₃ COON d) CuSO ₄ , Ag			
21	Which of the following is incorrectly mate	ched?		[]
	a) Tomato – tartaric acidb) Citrus fruits – citric acid	c) ant sting d) curd – lac	– methanoic acid ctic acid		
22	The aqueous solution of which of the folloa) NaCl b) Na2SO4 c) CH	owing salt will hav 3COONa	ve higher OH ⁻ ions? d) none of these	[]
23	Which of the following will not give CO2	on treatment with	h dilute acid?	[]
	a) Marble b) limestone	c) lime	d) baking soda		
24	Substances exposed to atmosphere at ordinary crystallisation are called as a) Hygroscopy b) efflorescence	nary temperature,		[]
25	An element 'X' forms a solid oxide which turns blue litmus paper red. 'X' is –	n dissolves in wate	er forming solution which	[]
	a) Calcium b) copper	c) iron	d) phosphorus		
26	The substance which on treating with chloral Quick lime b) limestone	orine, yields bleach c) slaked lime	0.1	[]
27	If tartaric acid is not added in baking power presence of	der, the cake will	taste bitter due to the	[]
	a) Sodium hydrogen carbonateb) Sodium carbonate	· ·	on dioxide e unreacted tartaric acid		
28	Carbohydrates in human is stored in the fo a) Glycogen b) starch	orm of c) glucose	d) maltose	[]
29	Lacteals are a) Group of blood cells b) Lymph vessels		(a) and (b) e of these	[]
30	Amphibians have			[]
	a) 1 - chambered heartb) 2 - chambered heart		chambered heart chambered heart		

31	Lipase acts on				[]
	a) Amino acids	b) fats	c) carbohydrates	d) all of these		
32	The transport of soluble p	roducts of phot	tosynthesis is known as		[]
	a) Evaporation b) to	ranslocation	c) transpiration	d) conduction		
33	Photosynthesis is a				[]
	a) Catabolic processb) parabolic process		c) amphibo d) photoche	lic process emical process		
34	Rhythmic movement of muscles in the lining of gut are known as a) Contracting movements b) Dilating movements d) none of these]
35	Receptors are specialised a) Muscle cells b)	tips of glands	c) sense organs	d) nerve cells	[]
36	The function of sensory nerve is to carry a) Message to spinal cord b) Detect heat / light c) spinal cord and nerves d) bones and nerves					
37	Growth – related movements are known as a) Tropic movements b) Nastic movements d) both (a) and (c)				[]
38	Growth of pollen tubes to a) Geotropism b) cher	wards ovules in notropism	n an example of c) hydrotropism	d) phototropism	[]
39	Insulin helps in a) Promoting growth b) Regulating amount of v	vater	c) regulating fa	at metabolism lood sugar level	[]
40	The timing and amount of a) Pancreas b) Feedback mechanism	hormone relea	ased is regulated by c) pituitary gla d) endocrine gl]]

AEES

MCQ ANSWER KEY

CLASS: X SUBJECT: SCIENCE

Q. NO.	CORRECT OPTION	ANSWER
1	d	Potiential difference
2	b	12 Ω
3	a	Infinite resistance
4	d	Electrical energy
5	c	Length
6	c	Short circuited
7	c	Direction of current and field
8	a	Live wire
9	c	Either the magnet or the coil
10	b	9:1
11	a	1:4
12	С	Nature of the material
13	b	1/10 Ω
14	b	Colourless
15	c	PbSO ₄
16	С	H_2S
17	b	A brown residue is left
18	d	Burning of LPG
19	b	Nitrogen & Helium
20	d	CuSO ₄ , AgNO ₃
21	a	Tomato – tartaric acid
22	С	CH ₃ COONa
23	c	Lime
24	b	Efflorescence
25	d	Phosphorus
26	С	Slaked lime
27	b	Sodium carbonate
28	a	Glycogen
29	b	Lymph vessels
30	c	3 – chambered heart
31	b	Fats
32	b	Translocation
33	d	Photochemical process
34	С	Peristaltic movements
35	С	Sense organs
36	a	Message to spinal cord
37	d	Both (a) and (c)
38	b	Chemotropism
39	d	Regulating blood sugar level
40	b	Feedback mechanism

ATOMIC ENERGY EDUCATION SOCIETY MULTIPLE CHOICE QUESTION TEST (AUGUST – 2019)

	CLASS: X SUBJECT: SOCIAL STUDIES TIME: 1 hr. MAX.MARKS	S: 40	
S	Student Name: Section / Roll No:		
S	Sign of Invigilator: Sign of Examiner:		
Inst	truction: - Write the correct option in the bracket [] given against the corresponding ques	tion.	
1	Workers enjoy job security in a) Agriculture sector b) Primary sectore c) Unorganised sector d) Organised sector	[]
2	Under employment occurs when people a) Do not want to work b) are not paid for their work c) are not skilled d) are working less than they are capable of	[]
3	Which of the following economic activity is not in the tertiary sector? a) Banking b) Bee-keeping c) Teaching d) working in a call centre	[]
4	Which one of the following sectors is the largest employer in India? a) Primary b) Secondary c) Tertiary d) IT	[]
5	GDP is the total value of a) All the goods and services b) All final goods and services c) All intermediate goods and services d) All intermediate and final goods and services	[ces]
6	Resource which can be renewed again are:- (a) National Resource (b) Potential Resource (c) Renewable Resources (d) Stock	[]
7	In which year was the Earth Summit held? a) 1990 b) 1991 c) 1992 d) 1993	[]
8	Land degradation due to over irrigation can be seen in the states of:- a) Punjab and Haryana b) Assam c) Orissa d) Mizoram	[]
9	Which one of the following state is terrace cultivation practiced? a) Punjab b) Haryana c) Uttar Pradesh d) Uttaranchal	[]
10	Which one of the following is the main cause of land and water pollution in India in rec years? a) Industrial Effluents b) Chemical Fertilizer c) Deforestation d) None of them	ent []

11	Forest Policy?		·	is required ac	ecording to the National	[]
	a)33%	b) 37%	c) 27%		d) 31%		
12	Which one of the follo a) Underground water	wing is responsible b) Wind	ole for sheet e c) Glaci		d) Water	[]
13	What did the Rowlatt a) Detention of politics c) Forced manula labor	al prisoners withou	out trail b) Forced recru) Equal pay fo	itment in the army r equal work	[]
14	What did the term 'pic a) Stealing from shops c) Protest by blocking			b) Import of g d) Boycott of	oods clothes and goods	[]
15	Where was Gandhi's a a) Dandi b) Saba		Allahabad	d) Nag	pur	[]
16	What led to the Civil Disobedience Movement? a) Arrival of the Simon Commission b) Working at the firm without payments c) Violation of Salt Tax by Gandhi d) Fall in demand for agricultural goods]
17	Who wrote the 'Vande Matram'? a) Bankim Chandra Chatarjee b) Rabindranath Tagore c) Abanindranath Tagore d) Sardar Vallabhai Patel					[]
18	Which of the following a) Bavaria b) Pruss		nification of C Rhineland	Germany? d) Han	over	[]
19	Congress of Vienna to a) 1818 b)1819	-	ear 1815	d) 180.	5]]
20	Who was Frederic Sor a) A Philosopher		A Politician	d) A R	evolutionary	[]
21	Who hosted the congreta) Count Cavour	ess of Vienna? b) Victor Emanu	el c) Bism	ark d) Met	ternich	[]
22	Main significance of I a) Majoritarianism b) Power shared in all c) On the basis of adul d) None of the above	ethnic groups acc]]
23	Which of the following a) Tamil	g community is in b) Sinhala	n majority in c) Budd		d) Hindu	[]
24	Which one of the follo a) Community Govern c) Panchayati Raj Gov	ment	b) State	nent in India? Government ral Governmen	nt	[]

25	Which is the only off a) Tamil	icial language of Sri L b) Malyalam	anka? c) Sinhala	d) Hindi	[]
26	Where is the parliame a) Belgium	ent of European Union b) Britain	? c) Germany	d) France	[]
27	Which of the follows a) India	ng is not a federal cou b) Belgium	ntry? c) USA	d) Malaysia	[]
28	When did the Pancha a) 1992	yat Raj System becom b) 1991	e a constitution c) 1993	nal entity? d) 1998	[]
29	Federal system of go a) a government with b) a form of unitary g c) a form of autocrati d) monarchy government	two or more levels of government c government	government		[]
30	b) power shared amon	rernment? Ing different social groung different levels of going different political parties of going different organs or going different organs org	overnment arties		[]
31	b) National Income pc) Population divided	ivided by country's po lus country's population	on		[]
32	children.	ldren that die before the		ear as a proportion of 1000 live]]
33	Which of the following a) Computers	ng things money canno b) Buildings c) Boo	•	lution free environment	[]
34	In which Indian state a) Bihar	e is the infant mortality b) Andhra Pradesh	rate lowest? c) Kerala	d) Punjab	[]
35	Which of the following Development Index? a) Sri Lanka	ng neighboring country b) Nepal	y of India ranks	s higher on the Human d) Pakistan	[]

30	a) Forcec) Violent Agitation		b) Democratic Political Process d) Terrorism		L	J
37	Who got the first No	obel Prize in the field of	Economics?		[]
	a) Amartya Sen c) C.V.Raman		b) Rabindranath Tagore d) None of the above			
38	Which of the following is not an example for biotic resources? a) Buildings b) Rose plant c) Tiger d) Bushes]]
39	Biotic resources mea a) Living things	ans b) Non-living things	c) Minerals	d) None of the above]]
40	You are a part of a) Biotic resources	b) Abiotic resources	c) minerals	d) None of the above]]

ATOMIC ENERGY CENTRAL SCHOOL

CLASS SUBJECT: SOCIAL STUDIES : X MCQ TEST TIME : 1 hr.

TOTAL NO. QUESTIONS: 40

- 1. d. Organised sector
- 2. d. are working less than they are capable of
- 3. b. Bee-Keeping
- 4. a. Primary
- 5. b. all final goods and services
- 6. c. Renewable resources
- 7. c. 1992
- 8. a. Punjab and Haryana
- 9. d. Uttaranchal'
- 10. a. Industrial Effluents
- 11. a. 33%
- 12. d. Water
- 13. a. Detention of political prisoners without trail
- 14. c. Protest by blocking shop entrances
- 15. b. Sabarmati
- 16. c. Violation of Salt Tax by Gandhi
- 17. a. Bankim Chandra Chatarjee
- 18. b. Prussia
- 19. c.1815
- 20. b. A Painter
- 21. d. Metternich
- 22. b. Power shared in all ethnic groups according to their population
- 23. b. Sinhala
- 24. c. Panchayati Raj Government
- 25. c. Sinhala
- 26. a. Belgium
- 27. d. Malaysia
- 28. a. 1992
- 29. a. a government with two or more levels of government
- 30. c. power shared among different political parties
- 31. a. National Income divided by country's population
- 32. b.The number of children that die before the age of one year as a proportion of 1000 live children
- 33. d. Pollution free environment
- 34. c. Kerala
- 35. a. Sri Lanka
- 36. b. Democratic Political Process
- 37. a. Amartya Sen
- 38. a. Buildings
- 39. a. Living things
- 40. a. Biotic resources