प्रश्न पत्र क्रमांक . .

परीक्षा कोड : SENT - 10 वर्ष 2016-2017

3953.

उत्तर पत्रक पर छपा क्रमांक	परीक्षा केन्द्र की सील
Printed No. on Answer Sheet	Seal of Examination Centre
	का अनुक्रमांक F CANDIDATE

निरीक्षक के हस्ताक्षर एवं दिनांक

नोट: उपयुंक्त को परीक्षार्थी भरेंगे तथा निरीक्षक जांच कर हस्ताक्षर करेंगे।

भाग - I - मानसिक योग्यता

समय - 45 मिनट (11.00 से 11.45 बजे तक)

पर्णांक - 50

भाग - II - भाषा बोध परीक्षा

समय - 45 मिनट (12.00 से 12.45 बजे तक)

पूर्णांक - 50

भाग - III - शैक्षिक योग्यता परीक्षा

समय - 1.30 घंटा दोपहर 1.00 से 2.30 बजे तक

पूर्णांक - 100

परीक्षार्थियों को निर्देश

नीचे लिखे हुए निर्देशों को सावधानीपूर्वक पढ़ें, इसके बाद प्रश्नों के उत्तर चिन्हित करना प्रारम्भ करें :-

- प्रथम, द्वितीय एवं तृतीय भाग के लिए अलग-अलग उत्तर पत्रक दिए हैं, याद रखें आपको अपने उत्तर संबंधित भाग के उत्तर-पत्रक पर ही चिन्हित करने हैं।
- प्रश्नपत्र एवं प्रत्येक उत्तर पत्रक पर अपना अनुक्रमांक प्रवेश-पत्र में दिए गए अनुक्रमांक के अनुसार ही लिखें।
- सपस्त अंक अंग्रेजी में ही लिखें। एक चौखाने में एक ही अंक लिखें।
- यह परीक्षा तीन भागों में ली जा रही है। प्रथम भाग में 1 से
 तक मानसिक योग्यता के प्रश्न हैं। द्वितीय भाग में

PART - I - MENTAL ABILITY

Time - 45 Minutes (11.00 to 11.45 P.M.)

Max, Marks - 50

PART - H - LANGUAGE TEST

Time - 45 Minutes (12.00 to 12.45 P.M.)

Max. Marks - 50

PART - III - SCHOLASTIC ABILITY TEST

Time - 1 hour 30 minutes 1.00 to 2.30 P.M.

Max. Marks - 100

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you answer the questions on Answer Sheet:

- The answer sheets for Part-I, Part-II & Part-III are different. Remember you have to mark you answer on related answer sheet.
- Write Roll No. as given in admission card on this Question paper as well as on the Answer sheet.
- Write all the Nos. in English numbers only. Write only one digit in one block.
- This question paper contains three parts. I-Part contains 1-50 questions of mental ability. II-part contains 1-50 questions in Hindi language and

P.T.O.

1 से 50 प्रश्न हिन्दी भाषा के हैं एवं 1 से 50 प्रश्न अंग्रेजी भाषा के हैं। विद्यार्थियों को इनमें से केवल एक भाषा का चयन करना है अर्थात् या तो हिन्दी या अंग्रेजी। चुनी हुई भाषा को सावधानी से उत्तर पत्रक पर दिये गए निर्धारित स्थान पर अंकित करना है। तीसरे भाग में शैक्षिक योग्यता परीक्षा के 1 से 100 प्रश्न हैं। सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न के लिए 1 अंक निर्धारित हैं।

प्रत्येक सही उत्तर का एक अंक प्रदान किया जाएगा।

इस परीक्षा के प्रत्येक भाग के लिए निश्चित समय का निर्धारण किया गया है। आप किसी एक प्रश्न के लिये ज्यादा समय न गंवाते हए निर्धारित समय का सद्द्ययोग करें।

- 7. भाग I (मानसिक योग्यता) के प्रश्न-पत्र को 11.45 बजे तक समाप्त कर लें व उत्तर-पत्रक पर्यवेक्षक को तुरंत वापस करेंगे। भाग II (भाषा बोध परीक्षा) के प्रश्न-पत्र को 12.45 बजे तक समाप्त कर उसके उत्तर पत्रक पर्यवेक्षक को तुरंत वापस करेंगे। भाग-III (शैक्षिक योग्यता परीक्षा) के प्रश्नपत्र को 2.30 बजे तक समाप्त करके उत्तर-पत्रक पर्यवेक्षक को वापस करेंगे।
- इस प्रश्न-पत्र का अंतिम पेज रफ कार्य करने के लिये दिया गया है।
- उत्तर देने का तरीका:
 उत्तर देने के लिए ओ.एम.आर. उत्तर पत्रक में संबंधित प्रश्न के बाजू में दिये गये चार गोलों में से केवल एक गोले को पूरा काला कीजिए।

 उत्तर ॲकित करने के लिए केवल काला/नीला बॉल -पाइंट पेन का प्रयोग करें।

 किसी प्रकार के कैलकुलेटर, लॉग टेबिल या अन्य इलेक्ट्रॉनिक उपकरणों, मोबाइल फोन आदि का प्रयोग वर्जित है।

12. मूल्यांकन पद्धित -प्रत्येक प्रश्न के चार संभावित उत्तर हैं, उनमें से एक उत्तर सही है। प्रश्न का सही उत्तर अंकित करने से एक अंक प्राप्त होगा। यदि एक से ज्यादा गोले काले किये जाते हैं तो यह माना जायेगा कि परीक्षार्थी को प्रश्न का सही उत्तर नहीं मालूम है और उसे कोई अंक नहीं दिये जायेंगे।

13. उत्तर शीट वीक्षक को सौंपना – वीक्षक को उत्तर शीट सौंपने के पहले सुनिश्चित कर लें कि उत्तर शीट के दोनों पृष्ठों पर सही पूर्तियां जैसे– नाम, रोल नम्बर, हस्ताक्षर, प्रश्न पुस्तिका का नम्बर आदि निर्धारित स्थान पर ठोक-ठीक भरे गये हैं।

14. उत्तर शीट के उपयोग में सावधानी -उत्तरशीट का प्रयोग करते सभय पूरी तरह से सावधानी बरतें। इसे फटने, मोड़ने या सलवट पड़ने से खराव न होने दें।

 कृपया परीक्षा के बाद उत्तर पत्रक निरीक्षक को लौटा दीजिए।

16. अनुवादित विवरण में अंतर से उठे किसी भी विवाद की स्थिति में प्रश्न पत्र के अंग्रेजी विवरण को निर्णायक माना जाएंगा। 1-50 questions in English Language. The candidate has to attempt this test only in one language i.e. either in Hindi or in English. Mark the language opted by you very carefully on the answer sheet. Ill part contains 1-100 Questions. All the questions are compulsary. Each Question carry one mark.

Every correct answer will be awarded one mark.

 Since the time allotted to the two parts of this Question Paper is limited, you should make the best use of it by not spending too much time on any one question.

 Solve the Part-I (Mental Ability) of the Question Paper by 11.45 am and related Answer sheet quickly sumit to the Invigilator. Part-II (Language) paper should be solved by 12.45 pm and Answer sheet submit to the invigilator Answer sheet Part-III (Scholastic ability) should be by 2.30 pm. and answer sheet should the submitted on previous manner.

8. The last page of this Question booklet is meant for **Rough work**.

9. Method of marking Answer -

To answer a question, please darken one bubble out of the given four, in the OMR Answer Sheet against that question.

 Use only Black / Blue Ball-point Pen to mark the answer.

 Use of any calculator, log tables or any other electronic Gadgets, Mobile phones is prohibited.

12. Valuation procedure -

There are four alternative answer to a question, only one of them is correct answer. If more then one bubble are darkened for a question, it will be presumed that the candidate does not know the correct answer; hence, no mark shall be awarded.

13. Handing over of Answer Sheet to Invigilator -

Please ensure that all entries in the answer sheet are filled up properly i.e. Name, Roll No., Signature, Question Booklet No. language, etc.

14. Care in Handling the answer sheet -While using answer sheet adequate care should be taken not to tear or spoil due to folds or wrinkles.

15. Please return Answer-Sheet to the invigilator after the test.

 English version of the question paper will be considered as final in case of any dispute arising out of variation on translated version.

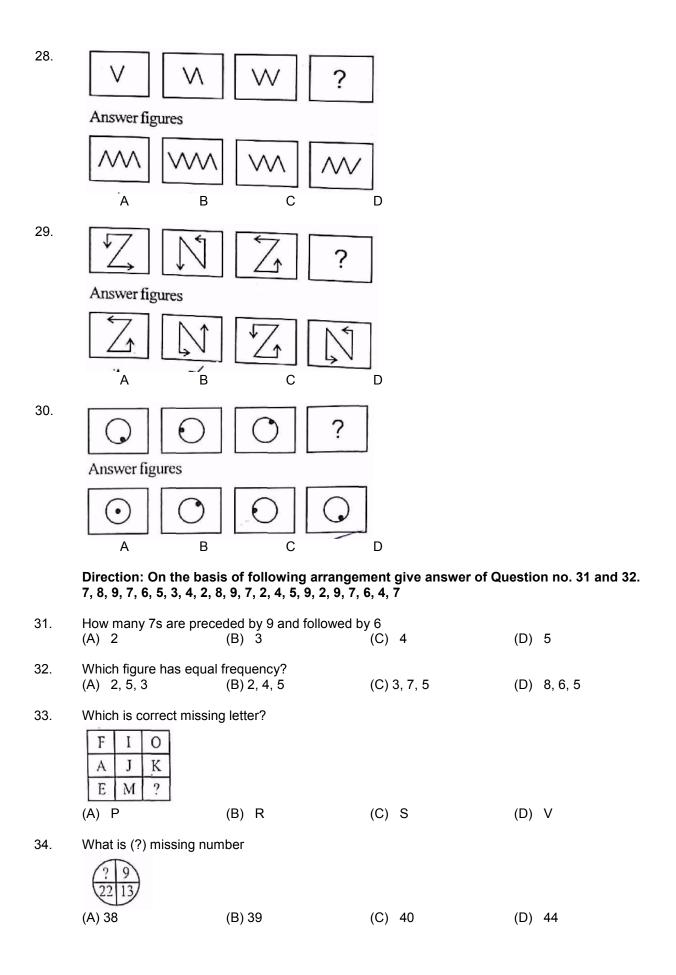
NTSE STAGE - 1 (2016) (STATE OF M.P.) SENT - 10

PART - 1 MENTAL ABILITY

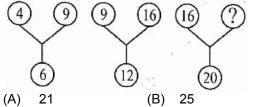
Direction: In question nos 1 to 5 there is a number series with one term missing shown by question mark (?) This term is one of the alternative given. Choose that number.

1.	36, ?, 24, 18, 12 (A) 22	(B) 28	(C) 38	(D) 30
2.	1, 1, 4, 8, 9, 27, 16, 64, (A) 81	25, ? (B) 100	(C) 125	(D) 121
3.	3, 5, 8, 13, 21, ?, 55 (A) 25	(B) 49	(C) 36	(D) 34
4.	80, 78, 75, 71, ?, 60 (A) 76	(B) 73	(C) 65	(D) 66
5.	2, 7, 17, 32, 52, ? (A) 77	(B) 64	(C) 72	(D) 81
	one of the four altern	atives given under the	question which satisfi	ank space and it is only es the same relation as n the question. Find the
6.	BEGK: ADFJ :: PSVY : (A) LOQT	? (B) ROUX	(C) OTUZ	(D) ORUX
7.	A B C D : N P R T : : F (A) K L M N	G H I : ? (B) O Q R T	(C) R T U W	(D) S U W Y
8.	BLOCKED : YOLXPVW (A) LAUNCH	/ :: ? : OZFMXS (B) DEBATE	(C) LABOUR	(D) RESULT
9.	aCE : bdF :: fhJ : ? (A) ghk	(B) gik	(C) dfH	(D) fhL
10.	Menu: Food:: Catalogue (A) Rack	e: ? (B) Newspaper	(C) Library	(D) Books
	symbol: : have the san	ne relationship as the tw	o terms to the right of s	tion. The terms left to the symbol: out of four terms rite the correct one in the
11.	Teacher: Student:: Doc (A) Hospital	tor: ? (B) Nurse	(C) Patient	(D) Pathology
12.	Feather: Soft:: Glass:? (A) Black	(B) White	(C) Light	(D) Hard
13.	Sky: Cloud:: Water:? (A) River	(B) Steam	(C) Ice	(D) Hot
14.	Bird: Flying:: Animal: ? (A) Running	(B) Flying	(C) Walking	(D) Crying
15.	Court: Justice:: School: (A) Teacher	? (B) Education	(C) Ignorance	(D) Student

16.	Satyajit Ray is related to (A) Literature	o films in the same way a (B) Drama	as Picasso is related to (C) Poetry	(D) Painting
17.	Find the relationship - Lucknow: Patna: Bhopa (A) Indore	al: Jaipur: ? (B) Mysore	(C) Pune	(D) Shimla
18.	Which of the following of (A) Tomato	does not be long to other (B) Mango	s? (C) Guava	(D) Papaya
19.	If today is Sunday, after (A) Friday	90 days it will be (B) Saturday	(C) Sunday	(D) Monday
20.	Pointing to a lady, a malady related to the man' (A) Mother's sister (C) Sister of father-in-la	?	only brother is the brother (B) Grandmother (D) Maternal aunt	er of my wife". How is the
21.	Raza said "This girl is the (A) Father	ne wife of the grandson o (B) Grandfather	of my mother". Who is Ra (C) Husband	aza to the girl? (D) Father-in-law
22.	If the 2nd September 20 (A) 3	016 was Friday. How ma (B) 4	ny Friday were there in t (C) 5	he month? (D) None of these
23.		a. Gopal is older than M older than Ram. Who is (B) Mala		ara. Kapil is younger than (D) Gopal
24.	You go north, turn right (A) North	, then right again and the (B) South	en go the left. In which di (C) East	rection are you now? (D) West
25.	In the given words find (A) Winter	the odd one out (B) Summer	(C) Spring	(D) Cloud
	Question no. 26 to 30 correct figure from the a		figures. Bearing series	in mind, pickup the fourth
26.	Answer shapes	? ?	D	
27.	Answer shapes]	
	A B	c C	D	



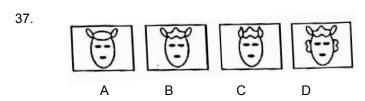
35. Find the missing character.

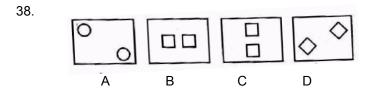


Direction: Question no. 36 to 38 each form a group with similar except one. Find the different one.

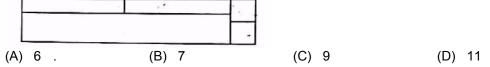
(C) 35

36. Ä B C D

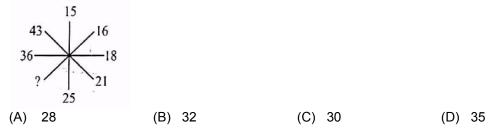




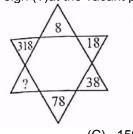
39. What is the number of rectangles in the following figure?



40. In the following question there is a sign (?) at the vacant place. Find out the missing number.



41. In the following question there is a sign (?)at the vacant place. Find out the missing number.



(A) 68

(B) 140

(C) 156

(D) 158

(D) 45

42.	In the following question	n, find out the missing nu	ımber at	t the vacant place		
	? 24 5 7 21 10 8 9 (A) 12	(B) 14	(C) 4		(D)	13
43.						
	9 2 3 4 5 25					
	(A) 10	(B) 12	(C) 20	0	(D)	16
44.		man, his wife, his three bers are there in the fam		neir wives and thre	ee ch	nildren in each son's
	(A) 12	(B) 14	(C) 17	7	(D)	19
45.	A 26 feet long piece of is -	wood is cut to make thre	e piece	s of equal length,	the I	ength of each piece
	(A) 8 feet 8 inches (I	B) 8 feet 2 inches	(C) 8 fe	eet 6 inches	(D)	8 feet 4 inches
	circular table facing the B is not an immediate	es (46-48). Eight friends he centre, not necessar e neighbour of either E FB, H is second to the le	rily in th or C. H	ne same order. C I is not an imme	is th	nird to the left of E, neighbour of E, D
46.	Who is sitting third to the (A) E	ne left of B? (B) A	(C) G	3	(D)	В
47.		pairs of people correctly	represe	ents the pair of pe	eople	who are immediate
	neighbour of H? (A) DC	(B) GA	(C) A	AD	(D) E	3G
48.	Who is sitting between (A) H	B and C? (B) F	(C) A		(D)	G
49.		aughters - A and B as w	ell as or	ne son ;D" so wha	at is t	he relation between
	D to A? (A) Sister (C) Uncle			Bhabhi (sister-in-la Brother	ıw)	
50.	If Ajay is taller than Tar (A) Ajay	a, but shorter than Atul, A (B) Tara	Atul is sh (C) Sl			n who is tallest Atul

ENGLISH

Choose the correct word from the options to fill in the blanks-

1.	Priya her teac (A) apologised to		_		ignment on due date argue		complained
2.	A wise enemy is(A) good		n a foolish friend. better	(C)	best	(D)	None of the above
3.	The teacher scolded the (A) who				ghty. whom	(D)	why
4.	Time is precious, do no (A) Avaist	(B)	west	(C)	waste	(D)	vest
5.	After a week's rain, the (A) humid	(B)	, was at its high humidity	nest. (C)	humidness	(D)	None of the above
6.	Charity begins at (A) hotel	(B)	home	(C)	theater	(D)	abroad
	Direction: Questions below	7 to	10 choose the co	rrec	t meaning of the _l	ohra	ses / idioms given
7.	To give away (A) to distribute	(B)	to sell	(C)	to share	(D)	to take care of
8.	To hold one's tongue (A) to keep quiet	(B)	to talk loosely	(C)	to examine	(D)	to speak loudly
9.	Pull somebody's leg (A)to throw someone ou (C) to tease someone	ut			to trip a person to stretch one's legs		
10.	Once in a blue moon (A) Happens everyday (C) Never happens				Happen very often Happens very rarely	,	
	Direction: Questions given.	11 t	o 14 Select the w	ord	that is opposite ir	n me	eaning to the word
11.	Disclose (A) to close	(B)	conceal	(C)	to reveal	(D)	to cover
12.	Inferior (A) mean	(B)	secondary	(C)	superior	(D)	grand
13.	Innocent (A) ignorance	(B)	simple	(C)	recent	(D)	cunning
14.	Solitary (A) isolated	(B)	accompanied	(C)	detached	(D)	lonesome
	Direction: Questions 1 Select the most appro			ne bl	anks from the give	n alt	ternatives.
15.	Medicines should not be (A) against		ced the reach of sm within		nildren. behind	(D)	None of the above
16.	Neeraj is than (A) oldest		kaj. as old as	(C)	older	(D)	more older

17.	He that he v (A) reprimanded	vas on the wrong floor. (B) realized	(C) asked	(D) None of the above
18.	A group of stars that (A) constellation	forms a pattern is called (B) fleet	a (C) bunch	(D) crew
	Direction: Question The following pass appropriate word gi	sage contains numbe	red blank spaces. Fill	in the blanks with the
	(20) it as the Bhutan has gorgeous but land-	e (21) of the g (22) a controlled touris	sm policy. The only meadom is by road throu	atural environment rise that the government of ans of (23) to this gh the tiny border town
19.	(A) accorded	(B) subjected	(C) anticipated	(D) abided
20.	(A) generating	(B) accepting	(C) guiding	(D) trying
21.	(A) assylum	(B) alter	(C) abode	(D) forbade
22.	(A) allowed	(B) assigned	(C) adopted	(D) administered
23.	(A) access	(B) attack	(C) adjust	(D) control
	Advertisements have	assage and answer the or almost become an inter a great deal of intere	gral part of our lives. Ev	en small children watch TV als, though, they may not
	has to popularise its posters, printmedia a people because of in has become a very p misled or misinformadvertisement and pu	s products, it has to act and the television. Adviteresting visuals dramate owerful factor in our eveled by the deceptive a	dvertise through various rertisements on the TV retizing the products or ser eryday life. Hence, we should be divertisements. Those writers. They are experts in	orld. If a company or a firm means such as handbills, make an instant appeal to vices. Today advertisement buld be watchful lest we are ho prepare the matter for a conveying the message in
24.	Short visuals shown (A) items	on the TV publicising so (B) fillers	me products are (C) advertisements	(D) one-act plays
25	Advertisements on th (A) appeal	e TV make an instant (B) approach	(C) approval	(D) agreement
26.	Those who prepare (A) dramatists	e the matter for advert (B) playwrights	isements are called. (C) scriptrwriters	(D) copywriters
27.	A message in an adv (A) detailed	ertisement should be (B) lengthy	(C) boring	(D) short and crisp

Direction: Questions 28 to 39

Read the passage and answer the questions given below it.

When I fell asleep, I dreamt about what it would be like to have a rocket ship. If I had a rocket ship my fast destination would be Earth's moon which is called Luna. When I will go to Luna I would jump all around because there is little gravity. I would be able to jump very high. After this, I would fly to Saturn and travel around its beautiful rings. On my way to Saturn, I would try to avoid Asteroids. Asteroids are large pieces of rock and minerals.

In my science class I learnt that it would take me almost my entire life to travel to Pluto which is the last planet in our solar system. Pluto is so far from our Sun that it is super cold. I wish I could see Pluto UP close.

28.	What is the name of Earth's moon? (A) Moona (B) Muna	(C) Loona	(D) Luna
29.	Which of the following is true (A) You wouldn't be able to jump on Moon (B) The Moon's gravity will allow you to jump (C) The Earth has less gravity than its Moon (D) Pluto is super hot	high	
30.	What is the unique feature of Saturn? (A) It's a moon (C) It is bright pink in colour	(B) It has lots of water (D) It has rings	
31.	Asteroids are (A) large piece of rock & mineral (C) mountain peaks	(B) reservoirs of water (D) None of the above	
32.	Which is the last planet in our solar system? (A) Sun (B) Moon	(C)Pluto	(D) Saturn
Directi	on: Questions 33 to 43		
Choose	e the word which best fills the blank from the fo	our options given	
33.	They always him for his accent. (A) pull (B) tease	(C) chase	(D) None of the above
34.	Our gardner went to the to buy a few pots of (A) orchard (B) nursery	the flowering plants. (C) estate	(D) plantation
35.	is a paper written in one's own hand (A) Manuscript (B) Transcript	dwriting. (C) Typescript	(D) None of the above
36.	The students get a monthly which us (A) grade (B) assignment	sually consists of writing a r (C) point	eport. (D) register
37.	The donkeywhen a heavy load was put (A) brayed (B) trumpeted		(D) bellowed
38.	The hardworking farmer tilled their farms from (A) midnight (B) dusk	m dawn to (C) twilight	(D) sunrise
39.	The police has captured the entire(A) troup (B) crew	_of thieves. (C) gang	(D) party
40.	The previous owner of our factorya (A) installed (B) established	burglar alarm system in the (C) executed	e factory. (D) implemented

41.	Everyone was	by a device	small enough to fit on a desk.	(D) comutinizad
	(A) interested	(B) fascinated	(C) satisfied	(D) scrutinized
42.		your idea carefully before		
	(A) over	(B) in	(C) to	(D) under
43.	He died	cholera.		
	(A) to	(B) upon	(C) of	(D) in
44.	The captain	his brave soldi	ers.	
	(A) ordered	(B) requested	(C) said that	(D) pleaded
Direc	tion : Questions	45 to 50		
Fill in	the blanks with th	ne right form of the verb		
45.	These	no mystery so great as n	niserv.	
	(A) are	(B) is	(C) am	(D) none of these
46.	You	_ me of marvellous thing	IS	
	(A) tell	(B) writes	(C) tells	(D) speaks
47.	The Happy Pri	ncesad.		
		(B) looked	(C) say	(D) none of these
48.	Kalids	Shakuntalam.		
.0.		(B) wrote	(C) write	(D) written
49.	They have	a project.		
10.	(A) prepare		(C) prepared	(D) been prepared
50.	Vou must	before you speak.		
50.	(A) jump	(B) laugh	(C) hurry	(D) think

PHYSICS

1.	A 4 Ω resistance wire is doubled by folding it, the (A) 1Ω	new resistance is (B) 2Ω
	(C) 3Ω	(D) None of these
2.	Which of the following terms does not represent e (A) I ² R (C) VI	lectrical power in a circuit: (B) IR ² (D) V ² /R
3.	In a vernier calliper if 10 vernier scale divisions is is (A) 0.2mm (C) 0.8mm	equal to 8 main scale divisions (m.m.), then what the least count of vernier calliper? (B) 0.1 mm (D) 0.01 mm
4.	If initial velocity of an object is 'u' and accelera second.	ation is 'a' then find the distance travelled in nth
	$(A) S_n = un + \frac{an^2}{2}$	(B) $S_n = un + an^2$
	(C) $S_n = u + \frac{a}{2}(2n+1)$	(D) $S_n = \left(u + \frac{a}{2}\right)n^2$
5.	What is the temperature which is identical in both ((A) – 40 $^{\circ}$ (C) 0 $^{\circ}$	Celsius and Fahrenhite temperature scale? (B) -4° (D) none of the above
6.	If a person goes from town A to town B by a speekm/h then average speed of the person is (A) 100 km/h (C) 0 km/h	d of 50 km/h and comes back with a speed of 150 (B) 75 km/h (D) 200 km/h
7.	Angle of elevation of pole star observed from any v (A) longitude of the place (C) constant	where on the Earth is approximately equal to (B) latitude of that place (D) both longitude and latitude
8.	If 3 resistances R_1 , R_2 and R_3 are connected resistances are R_S and R_p respectively then corre	ct relationship is $(R_1 > R_2 > R_3)$
	(A) $R_s < R_3, R_P > R_1$	(B) $R_s = R_1 + R_2 + R_3, R_P = \frac{R_1^2 + R_2^2 + R_3^2}{R_1 + R_2 + R_3}$
	(C) $R_S < R_P$	(d) $R_S > R_1, R_P < R_3$
9.	Between which 2 planets the orbit of Seres lies (A) Earth-Mars (C) Mars-Jupiter Dentists use to see large image of the teeth of pat (A) Convex mirror (C) Concave lens	(B) Venus-Earth (D) Jupiter-Saturn tients using (B) Convex lens (D) Concave mirror
11.	A human being has a horizontal field of view of a with (A) 120°, 150° (C) 180°, 210°	both eyes (B) 150°, 180°
12.	 (C) 180°, 210° To prevent electrical circuits from damage we use (A) high resistance and low melting point (C) low resistance and low melting point 	(D) 210°,240° fuse wire of (B) high resistance and high melting point (D) low resistance and high melting point
13.	Biggest planet of the solar system is (A) Mercury (C) Jupiter	(B) Saturn (D) Uranus

CHEMISTRY

14.	All the elements in a group have the - (A) Same valency (C) Variable valency	(B) Different valency (D) None of these
15.	The atomic number of E, F, G, H are given below, Element (A) E (B) F (C) G (D) H	which element belongs to zero group - Atomic number 5 7 10 16
16.	Which of the following compounds is bad conductors: (A) Ionic compound (C) Covalent compound	or of electricity? (B) Electrovalent compound (D) None of these
17.	The addition of oxygen to a substance is called - (A) Redox (C) Reduction	(B) Oxidation (D) None of these
18.	The molecular formula of Sucrose is - (A) CH_2O (C) $C_{12}H_{22}O_{11}$	(B) C ₆ H ₁₂ O ₆ (D) CH ₃ COOH
19.	Coal is a fuel- (A) Fossil fuel (C) Bio fuel	(B) Nuclear fuel (D) None of these
20.	Strong electrolytes is - (A) NH ₄ OH (C) H ₂ CO ₃	(B) Ca(OH) ₂ (D) NaCl
21.	Chemical formula of Teflon is –	
	(A) $(-CF_2 - CF_2 -)_n$	(B) $ \begin{pmatrix} CH \\CH_2 - \\ CI \end{pmatrix}_n $
	(C) $(-CH_2 - CH_2 -)_n$	(D) None of these
22.	The properties of the product are different from the (A) Mixture (C) Compound	ose of the constituents is called - (B) Element (D) Acid
23.	Which Vitamin is found in abundance in Amla? (A) Vitamin-A (C) Vitamin-B	(B) Vitamin-C (D) Vitamin-D
24.	Dilute solution of alkaline potassium permanganate (A) Bayer's reagent (C) Fehling solution	e is known as - (B) Tollen's reagent (D) Benedict solution
25.	The chemical formula of Plaster of Paris is – (A) Calcium Sulphate [CaSO ₄] [CaSO ₄ ½H ₂ O] (C) Parising Sulphate [PaSO ₄]	(B) Calcium Sulphate Hemihydrate
00	(C) Barium Sulphate [BaSO ₄]	(D) None of these
26.	Bromine is a – (A) Non-metal (C) Metalloids	(B) Metal (D) None of these

BIOLOGY

27.	The study of interaction (A) Ecology	n between living organism (B) Phytogeography		environment called Psychology		Mycology
28.	In how many parts hun (A) 4	nan brain is divided - (B) 5	(C)	3	(D)	2
29.	Chromosome number (A) 1/2	in the daughter cells after (B) 1/3	meic (C)	osis is - 1/4	(D)	1/5
30.	The instrument for mea (A) Manometer (C) Barometer	asuring blood pressure is o	(C) S	d - Sphygmomanomete Potentiometer	er	
31.	The anther contains - (A) Sepal	(B) Carpel	(C)	Petal	(D)	Pollen grains
32.	The largest gland in hu (A) Pituitarygland	ıman body is - (B) Liver	(C)	Adrenal gland	(D)	Thyroid gland
33.	Which cell organelle is (A) Ribosome	known as suicidal bag (B) Centrosome	(C)	Lysosome	(D)	Peroxysome
34.	Plant part used as med (A) Leaves	dicine of Terminalia arjuna (B) Fruits		Bark	(D)	Roots
35.	Energy flow in an Ecos (A) Unidirectional	system is – (B) Bidirectional	(C)	Multidirectional	(D)	None of these
36.	World Environment Da (A) 5 June	y is celebrated on - (B) 11 July	(C)	16 October	(D)	26 December
37.	C ₄ cycle mechanism is (A) Hill	given by - (B) Arnan	(C)	Hatch & Slack	(D)	Celvin
38.	Which pollutant is dang (A) Sulphur dioxide S (C) Carbon monooxide	O,	(B) (D)	Carbon dioxide All of these	CO,	
39. 40.	(A) Amla	is an example of Insectivo (B) Baheda ell amongst the following?		plant - Utricularia	(D)	Isoetes
⊤ ∪.	(A) Amoeba	(B) Bacteria	(C) `	Yeast	(D)	Volvox

HISTORY

41.	Big Bath has been found in which of the (A) Harappa (B) Mohenjo		(D) Chahnudaro
42.	Which statement about the position of (A) They enjoyed high status in the so (B) Parda system and child marriages (C) They had right to higher education (D) Dowry was not known.	ociety. were prevalent.	is not true?
43.	When did the first urbanization take pl (A) In the new stone age (C) During he Mauryan period	ace? (B) In the Indus Valley (D) During the Gupta	
44.	Which ruler of ancient India is known a (A) Bindusar (C) Ashoka	as Devanam Priyadasi? (B) Chandra Gupta M (D) Brihadatta	1aurya
45.	What are tripitakas? (A) Vedic Literature (B) Compilation of Buddha's sermons (C) Main principles of Lord Mahavira (D) Compilation of account of Alexand		
46.	Which ruler followed the policy of 'Block (A) Balban (C) Htutmish	od and Iron' for strengthening adı (B) Rajiya (D) Feroze-Shah-Tu	
47.	Which king of the sultanate period is k (A) Mohd-bin-Tughlaq (C) Jalal-ud-din-Khilji	known as the mad sultan'? (B) Feroze-Shah-Tug (D) Alauddin-Khilji	hlaq
48.	To which place of Madhya Pradesh is (A) Reewa (B) Indore	Jungle Satyagraha related? (C) Chhatarpur	(D) Seoni
49.	Who was the Governor General of Ind (A) Dalhousie (B) William		(D) Rippon
50.	Who gave the slogan of Do or Die' due (A) Vipin Chandra Pal (C) Mahatma Gandhi	ring the Indian freedom struggle? (B) Lala Lajpat Rai (D) Bal Gangadhar Ti	
51.	What was the main objective of British (A) To strengthen administrative syst (B) To suppress nationalist feelings (C) To promote nationalist feelings (D) To help in promotion of language	tem in Bengal	
52.	Through which newspaper did Lala independence? (A) Kesari (C) Hindustan	a Lajpat Rai inspire the people (B) Samvad Kaumudi (D) Kayastha Samach	
53.	Communal electorate was first introdu (A) 1773 Act (B) 1861Act	, , ,	(D) 1919Act
54.	Which Article of the Indian constitution (A) 370 (B) 395	, ,	,
55.	How many times has National emerge (A) One (B) Two	ency been declared in India? (C) three	(D) Four

GEOGRAPHY

56.	Oldest mountain in Indi (A) Himalaya	a is: (B) Vindhyachal	(C) Satpura	(D) Aravali
57.	Where is Bharat Heavy (A) Sagar	Electricals Limited (BHE (B) Bhopal	L) situated? (C) Indore	(D) Jabalpur
58.	Which of the following is (A)Climate	s the most important fact (B) Type of soil	or to determine the type (C) Productivity of soil	
59.	Which of the following is (A) Uranium	s everlasting physical res (B) Coal	ource for power generat (C) Petroleum	tion in India? (D) Water
60.	Madhya Pradesh is (A) Second	largest state of India	in term of area. (C) First	(D) Fourth
61.	The leading producer o (A) Jharkhand	f coal in India. (B) Bihar	(C) Rajasthan	(D) Andhra Pradesh
62.	Thehighest rainfall in th (A) Chcrrapunji	e world is received at (B) Mawsynram	(C) Shilong	(D) Calicut
63.	Which of the following r (A) Narmada	iver does not fall in the B (B) Vanganga	ay of Bengal- (C) Mahanadi	(D) Krishna
64.	Blue revolution is relate (A) Fruit Production		(C) Sheep rearing	(D) Milk Production
65.	How many railway zone (A) 9	es are there in India? (B) 6	(C) 14	(D) 15
66.	Tropic of cancer does n (A) Gujarat	not pass through which of (B) Rajasthan	the following States? (C) West Bengal	(D) Orissa
67.	The Nagarjun Sagar Da (A) Godavari	am is located on the river (B) Krishna	- (C) Kaveri	(D) Narmada
68.	Topographical Maps of (A) Geological Survey (C) Survey of India		(B) Archaeological Surv (D) National Geograph	
69.	What is Bailadila famou	us for? (B) Iron Ore	(C) Copper	(D) Coal
70.	In which region is the m (A) Delta region	nethod of making contour (B) Plateau region	bands used for soil cons (C) Hills	servation? (D) Plains

CIVICS

71.	In a parliamentary form of Government, rea (A) President (C) Prime-Minister	I powers of the State are vested in which body? (B) Chief Justice of Supreme Court (D) Parliament
72.	Which fundamental right of Indian Constitution has been deleted by the 44th Amendment A (A) Right against exploitation (B) Right to property (C) Right to liberty (D) Right to equality	
73.	When is 'Human Right Day' celebrated? (A) 10th November (C) 10th January	(B) 10th December (D) 10th October
74.	Who is known as the father of Indian Consti (A) Dr. B. R. Ambedkar (C) Jawaharlal Nehru	itution? (B) Mahatma Gandhi (D) Sardar Patel
75.	The term of member of the Rajya Sabha is (A) 5 years (C) 6 years	(B) 2 years (D) Same as that of the Lok Sabha
	ECON	NOMICS
76.	What is Barter System? (A) Exchange of goods for dollars (C) Exchange of goods for coins	(B) Exchange of goods for rupees (D) Exchange of goods for goods
77.	On what basis the enterprises are classified (A) Employment conditions (C) Ownership of Enterprise (D)	(B) Nature of Economic activities
78.	In ancient times, which country was known (A) France (C) J & K India	as 'Golden Sparrow'? (B) New Zealand (D) China
79.	In India, the first five-year plan started from (A) 1947 (B) 1951	which year? (C) 1948 (D) 1950
80.	In which of the following sectors only service (A) In private sector (C) In secondary sector	es are produced? (B) In primary sector (D) In tertiary sector
	<u>MATHI</u>	<u>EMATICS</u>
81.	If in a right angled triangle ABC, $\cos A = \frac{9}{41}$,	then the value of cot A and cosecA will be
	(A) $\frac{40}{9}, \frac{40}{41}$	(B) $\frac{9}{40}, \frac{41}{40}$
	(C) $\frac{9}{41}, \frac{41}{9}$	(D) $\frac{9}{40}, \frac{40}{41}$
82.	In $\triangle ABC$, if $\angle B = 90^{\circ}$, $AB = 5$, $BC = 12$, then sin	ı C=
	(A) $\frac{12}{13}$	(B) $\frac{5}{13}$
	(C) $\frac{5}{12}$	(D) $\frac{13}{5}$

83.	$(\sec\theta + \tan\theta)(1-\sin\theta) = \dots$			
	(A) 0 (C) cos θ	(B) = 1 (D) sinθ		
84.	If $\tan \theta = \frac{1}{\sqrt{3}}$, then the value of			
	$\frac{\cos ec^2\theta - \sec^2\theta}{\cos ec^2\theta + \sec^2\theta}$ is			
	(A) $\sqrt{3}$	(B) 1		
	(C) $\frac{1}{\sqrt{2}}$	(D) $\sqrt{2}$		
85.	For what value of k, the equation $3x^2 + 2x + k = 0$ will have real roots:			
	$(A) k \leq \frac{1}{3}$	(B) $k \ge \frac{1}{3}$		
	(C) $k = \frac{2}{3}$ only	(D) None of the above		
86.	The product of Meera's age 5 years ago and her ago (A) 11 years	(B) 9 years		
	(C) 7 years	(D) 5 years		
87.	The area of right angled triangle is 96sq mtr. If base is three times the altitude, the length of base –			
	(A) 24 mtr. (C) 18 mtr.	(B) 20 mtr. (D) 15 mtr.		
88.	What is the probability that a leap year has 53 Sun			
	(A) $\frac{7}{53}$	(B) $\frac{7}{52}$		
	(C) $\frac{1}{7}$	(D) $\frac{2}{7}$		
	7	7		
89.	One card is drawn at random from a deck of 52 ca	4		
	(A) $\frac{3}{13}$	(B) $\frac{1}{26}$		
	(C) $\frac{3}{26}$	(D) $\frac{4}{13}$		
	26	13		
90.	The perimeter of the rectangular field is 206 meter. What will be its area if its length is 23 meter more than its breadth?			
	(A) 1520 meter ² (C) 2480 meter ²	(B) 2420 meter ²		
	(C) 2460 Meter-	(D) 2520 meter ²		
91.	The total surface area of a cube is 864 cm ² . Its vol (A) 3456 cm ³	ume is : (B) 432 cm³		
	(C) 1728 cm ³	(D) 3466 cm ³		
92.	. The length of the longest pole that can be kept in a room of size $12m \times 9m \times 8m$ is :			
	(A) 29m (C) 21m	(B) 17 m (D) 19 m		
93.	Which point on x-axis is equidistant from the point A(7,6) and B(-3,4)?			
<i>3</i> J.	(A) (0, 4)	(B) (-4, 0)		
	(C) (3, 0)	(D) (0, 3)		

94.	The point A(0, 6), B(-5, 3) and C(3, 1) are the vertical (A) Isosceles (C) Rightangled	ices of a triangle which is : (B) Equilateral (D) None of these	
95.	The x-axis divides the line joining A(2, -3) and B(7 (A) 2 : 1.5 (C) 3 : 2	7, 4) in the ratio : (B) 2 : 3 (D) 1 : 2	
96.	If A and B are two non empty sets, then $A \cup B =$ (A) $\{x \mid x \in A \text{ and } x \in B\}$ (C) $\{x \mid x \in A \text{ and } x \notin B\}$	(B) $\{x \mid x \in A \text{ or } x \in B\}$ (D) $\{x \mid x \notin A \text{ and } x \in B\}$	
97.	If A is a non empty set, $ \varphi $ is empty set $ \cup $ and is t (A) $ \cup $ (C) $ \varphi $	iniversal set, then $A \cap \phi =$ (B) a (D) A'	
98.	Selling price of one things is $\frac{3}{2}$ times of its cost price. What will be the percentage of profit?		
	(A) $20\frac{1}{2}$ (C) $33\frac{1}{3}$	(B) $25\frac{1}{4}$	
	(C) $33\frac{1}{3}$	(D) 50	
99.	A sold a bicycle to B on 20% profit. B sold it to C was the cost price of bicycle to A? (A) 110 (C) 120	on 25% profit. If C paid Rs. 225 for it, then what (B) 125 (D) 150	
100.	The height of a cylinder is 14 cm and its curved su (A) 308 cm ³ (C) 1232 cm ³	urface area is 264 cm ² , the volume of cylinder is : (B) 396 cm ³ (D) 1848 cm ³	