प्रश्न पत्र क्रमांक

3953

निरोक्षक के हस्ताक्षर एवं दिनांक

परीक्षा कोड : SENT - 10

वर्ष 2016-2017

उत्तर पत्रक पर छपा क्रमांक

परीक्षा केन्द्र की सील

85 - 85 - 88			
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	Printed No	on Answer	Sheet

Seal of Examination Centre

परोक्षार्थी का अनुक्रमांक ROLL No. OF CANDIDATE

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) पूर्णांक – 50

भाग – II - भाषा बोध परीक्षा समय – 45 मिनट (12.00 से 12.45 बजे तक) पुर्णांक – 50

भाग – III – शैक्षिक योग्यता परीक्षा समय – 1.30 घंटा दोपहर 1.00 से 2.30 बजे तक पुर्णांक – 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 50 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 - II - 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.
- 2. Write Roll No. as given in admission card on this Question paper as well as on the Answer sheet.
- 3. 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. Il-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।
- 6. इस परीक्षा के प्रत्येक भाग के लिए निश्चित समय का निर्धारण किया गया है। आप किसी एक प्रश्न के लिये ज्यादा समय न गंवाते हुए निर्धारित समय का सदुपयोग 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 वजे 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।
- 9. 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 अकित 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 पद्धति -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 शोट 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 सावथानी -उत्तरशीट का प्रयोग करते सभय पूरी तरह से सावधानी बरतें। इसे फटने, मोड़ने या सलवट पड़ने से खराब 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 जाएगा।

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. III part contains 1-100 Questions. All the questions are compulsary. Each Question carry one mark.

- Every correct answer will be awarded one mark.
- 6. 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.
- 7. 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.

- 10. 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.

- 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.
- 16. 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

Direction: In Question no. 6-10, there is a question mark in the blank space and it is only one of the four alternatives given under the question which satisfies the same relation as is found between the two pat terns to the left of the sign :: given in the question. Find the correct alternatives.

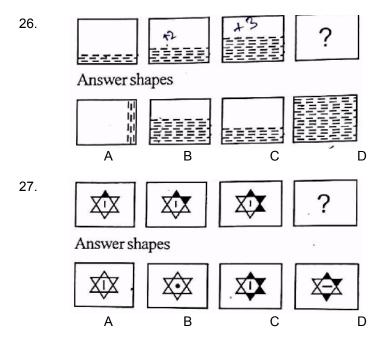
6.	BEGK: ADFJ :: PSVY : (A) LOQT	? (B) ROUX	(C) OTUZ	(D) ORUX
7.	A B C D : N P R T : : F (A) K L M N	G H I : ? (B) O Q R T	(C) R T U W	(D) S U W Y
8.	BLOCKED : YOLXPVV (A) LAUNCH	V :: ? : OZFMXS (B) DEBATE	(C) LABOUR	(D) RESULT
9.	aCE : bdF :: fhJ : ? (A) ghk	(B) gik	(C) dfH	(D) fhL
10.	Menu: Food:: Catalogu (A) Rack	e: ? (B) Newspaper	(C) Library	(D) Books

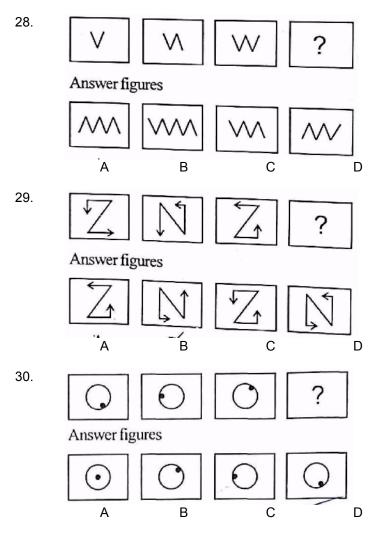
Direction : In Question no. 11 to 15, there are four terms in each question. The terms left to the symbol: : have the same relationship as the two terms to the right of symbol:: out of four terms one is missing which is one of the four alternative given, select and write the correct one in the answer sheet.

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 (A) Literature	to films in the same way (B) Drama	as Picasso is related to (C) Poetry	(D) Painting
17.	Find the relationship - Lucknow: Patna: Bhop (A) Indore	al: Jaipur: ? (B) Mysore	(C) Pune	(D) Shimla
18.	Which of the following (A) Tomato	does not be long to othe (B) Mango	ers? (C) Guava	(D) Papaya
19.	If today is Sunday, afte (A) Friday	er 90 days it will be (B) Saturday	(C) Sunday	(D) Monday
20.	Pointing to a lady, a m lady related to the mar (A) Mother's sister (C) Sister of father-in-la	1?	only brother is the broth (B) Grandmother (D) Maternal aunt	ner of my wife". How is the
21.	Raza said "This girl is t (A) Father	the wife of the grandson (B) Grandfather	of my mother". Who is F (C) Husband	Raza to the girl? (D) Father-in-law
22.	If the 2nd September 2 (A) 3	2016 was Friday. How m (B) 4	any Friday were there in (C) 5	the month? (D) None of these
23.		a. Gopal is older than N s older than Ram. Who i (B) Mala		Sara. Kapil is younger than (D) Gopal
24.	You go north, turn righ (A) North	t, then right again and th (B) South	en go the left. In which c (C) East	lirection are you now? (D) West
25.	In the given words find (A) Winter	the odd one out (B) Summer	(C) Spring	(D) Cloud

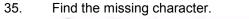
Question no. 26 to 30 have a series with three figures. Bearing series in mind, pickup the fourth correct figure from the answer figure.

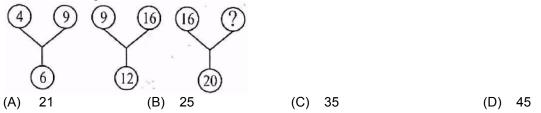




Direction: On the basis of following arrangement give answer of Question no. 31 and 32. 7, 8, 9, 7, 6, 5, 3, 4, 2, 8, 9, 7, 2, 4, 5, 9, 2, 9, 7, 6, 4, 7

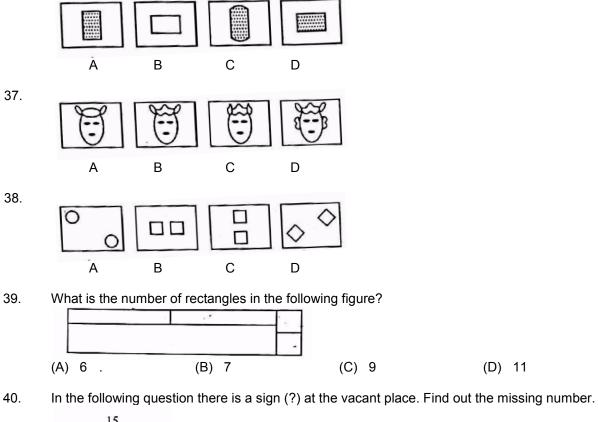
31.	How many 7s are prec (A) 2	eded by 9 and followed I (B) 3	oy 6 (C) 4	(D) 5
32.	Which figure has equa (A) 2, 5, 3	l frequency? (B) 2, 4, 5	(C) 3, 7, 5	(D) 8, 6, 5
33.	Which is correct missin F I O A J K E M ? (A) P	ng letter? (B) R	(C) S	(D) V
34.	What is (?) missing nu (A) 38		(C) 40	(D) 44





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

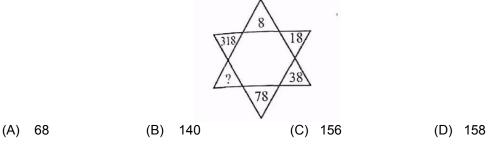
36.







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



42. In the following question, find out the missing number at the vacant place.



43.

$ \begin{array}{r} 9 & 3 \\ 2 & 4 \\ 4 & 5 \\ 25 \end{array} $			
(A) 10	(B) 12	(C) 20	(D) 16

44. A family consisted of a man, his wife, his three sons, their wives and three children in each son's family. How many members are there in the family?
(A) 12
(B) 14
(C) 17
(D) 19

45. A 26 feet long piece of wood is cut to make three pieces of equal length, the length of each piece is (A) 8 feet 8 inches (B) 8 feet 2 inches (C) 8 feet 6 inches (D) 8 feet 4 inches

Direction: In questions (46-48). Eight friends A, B, C, D, E, F, G and H arc sitting around a circular table facing the centre, not necessarily in the same order. C is third to the left of E, B is not an immediate neighbour of either E or C. H is not an immediate neighbour of E, D is. third to the right of B, H is second to the left of A. F is not immediate neighbour of H.

- 46. Who is sitting third to the left of B? (A) E (B) A (C) G (D) B
- 47. Which of the following pairs of people correctly represents the pair of people who are immediate neighbour of H?
 (A) DC
 (B) GA
 (C) AD
 (D) BG
- 48. Who is sitting between B and C? (A) H (B) F (C) A (D) G
- 49. If farmer LC' has two daughters A and B as well as one son ;D" so what is the relation between D to A?
 - (A) Sister(B) Bhabhi (sister-in-law)(C) Uncle(D) Brother
- 50.If Ajay is taller than Tara, but shorter than Atul, Atul is shorter than Sharad then who is tallest
(A) Ajay(B) Tara(C) Shared(D) Atul

ENGLISH

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

1.		cher for not submitting th (B) annoyed	e assignment on due da (C) argue	te, (D) complained
2.	A wise enemy is (A) good	than a foolish friend. (B) better	(C) best	(D) None of the above
3.	The teacher scolded th (A) who	ne students we (B) what	re naughty. (C) whom	(D) why
4. 5.		ot it. (B) west e, was at its hig (B) humidity		(D) vest(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 c	orrect meaning of the	phrases / 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 c (C) to tease someone	but	(B) to trip a person (D) to stretch one's leg	js
10.	Once in a blue moon (A) Happens everyday (C) Never happens		(B) Happen very often (D) Happens very rare	
	Direction: Questions given.	11 to 14 Select the v	word that is opposite	in meaning 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 Select the most appr		the blanks from the giv	en alternatives.
15.	Medicines should not t (A) against	be placed the reach of si (B) within	nall children. (C) behind	(D) None of the above
16.	Neeraj is that (A) oldest	n Pankaj. (B) as old as	(C) older	(D) more older

17.	He that he w (A) reprimanded	vas on the wrong floor. (B) realized	(C) asked	(D) None of the above
18.	A group of stars that f (A) constellation	orms a pattern is callec (B) fleet	a (C) bunch	(D) crew

Direction: Questions 19 to 23

The following passage contains numbered blank spaces. Fill in the blanks with the appropriate word given in each case.

With a culture that has for centuries _____(19) deep respect to its natural environment _____(20) it as the ______(21) of the gods, it comes as no surprise that the government of Bhutan has ______(22) a controlled tourism policy. The only means of ______(23) to this gorgeous but land-locked mountain Kingdom is by road through the tiny border town Phuntsholing near the Doars region of West Bengal.

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

Direction: Questions 24 to 27

Read the following passage and answer the questions given after it.

Advertisements have almost become an integral part of our lives. Even small children watch TV advertisements with a great deal of interest attracted by its visuals, though, they may not understand its message.

Advertisements can be termed as the backbone of the commercial world. If a company or a firm has to popularise its products, it has to advertise through various means such as handbills, posters, printmedia and the television. Advertisements on the TV make an instant appeal to people because of interesting visuals dramatizing the products or services. Today advertisement has become a very powerful factor in our everyday life. Hence, we should be watchful lest we are misled or misinformed by the deceptive advertisements. Those who prepare the matter for advertisement and publicity are called copywriters. They are experts in conveying the message in short, crisp sentences, slogans and eye-catching visuals.

		•	
(A) items	(B) fillers	(C) advertisements	(D) one-act plays
Advertisements on the	TV make an instant		
(A) appeal	(B) approach	(C) approval	(D) agreement
Those who prepare	the matter for advertise	ements are called.	
(A) dramatists	(B) playwrights	(C) scriptrwriters	(D) copywriters
A message in an adver	rtisement should be		
(A) detailed	(B) lengthy	(C) boring	(D) short and crisp
	 (A) items Advertisements on the (A) appeal Those who prepare (A) dramatists A message in an adve 	 (A) items (B) fillers Advertisements on the TV make an instant (A) appeal (B) approach Those who prepare the matter for advertise (A) dramatists (B) playwrights A message in an advertisement should be 	Advertisements on the TV make an instant (A) appeal(B) approach(C) approvalThose who prepare the matter for advertisements are called. (A) dramatists(B) playwrights(C) scriptrwritersA message in an advertisement should be

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 hi (C) The Earth has less gravity than its Moon (D) Pluto is super hot	gh	
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
Direct	ion: Questions 33 to 43		
Choos	e the word which best fills the blank from the four	options given	
33.	They alwayshim 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 the (A) orchard (B) nursery		(D) plantation
35.	is a paper written in one's own handw (A) Manuscript (B) Transcript		(D) None of the above
36.	The students get a monthly which usua (A) grade (B) assignment	Illy consists of writing a ro (C) point	eport. (D) register
37.	The donkeywhen a heavy load was put on (A) brayed (B) trumpeted	on its back. (C) grunted	(D) bellowed
38.	The hardworking farmer tilled their farms from o (A) midnight (B) dusk	dawn to (C) twilight	(D) sunrise
39.	The police has captured the entirec (A) troup (B) crew	of thieves. (C) gang	(D) party
40.	The previous owner of our factorya but (A) installed (B) established	rglar alarm system in the (C) executed	e factory. (D) implemented

41.	Everyone was (A) interested	by a device (B) fascinated	small enough to fit on a desk. (C) satisfied	(D) scrutinized
42.	I'll think (A) over	your idea carefully befor (B) in	e I take a final decision (C) to	(D) under
43.	He died (A) to	cholera. (B) upon	(C) of	(D) in
44.	The captain (A) ordered	his brave soldie (B) requested		(D) pleaded
	i on : Questions he blanks with th	45 to 50 he right form of the verb.		
45.	Theser (A) are	no mystery so great as m (B) is	nisery. (C) am	(D) none of these
46.	You (A) tell	_ me of marvellous thing (B) writes	s (C) tells	(D) speaks
47.	The Happy Prii (A) look	ncesad. (B) looked	(C) say	(D) none of these
48.		_Shakuntalam. (B) wrote	(C) write	(D) written
49.	They have (A) prepare	a project. (B) prepares	(C) prepared	(D) been prepared
50.	You must (A) jump	before you speak. (B) laugh	(C) hurry	(D) think

PHYSICS

- 1. A 4 Ω resistance wire is doubled by folding it, the new resistance is
 - (A) 1Ω
 - (C) 3Ω

- (B) 2Ω
- (D) None of these
- Which of the following terms does not represent electrical power in a circuit:
 (A) I²R
 (B) IR²
 - (C) VI (D) V^2/R
- 3. In a vernier calliper if 10 vernier scale divisions is equal to 8 main scale divisions (m.m.), then what is the least count of vernier calliper?
 - (A) 0.2mm (C) 0.8mm

- the least coun (B) 0.1 mm
- (D) 0.01 mm
- 4. If initial velocity of an object is 'u' and acceleration is 'a' then find the distance travelled in nth second.

(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 Celsius and Fahrenhite temperature scale? (A) -40° (B) -4° (C) 0° (D) none of the above

- 6. If a person goes from town A to town B by a speed of 50 km/h and comes back with a speed of 150 km/h then average speed of the person is
 (A) 100 km/h
 (B) 75 km/h
 (C) 0 km/h
 (D) 200 km/h
- Angle of elevation of pole star observed from any where on the Earth is approximately equal to

 (A) longitude of the place
 (B) latitude of that place
 (C) constant
 (D) both longitude and latitude
- 8. If 3 resistances R_1 , R_2 and R_3 are connected in series and is parallel then their equivalent resistances are R_s and R_p respectively then correct 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) $R_S > R_1, R_P < R_3$ Between which 2 planets the orbit of Seres lies
(A) Earth-Mars
(C) Mars-Jupiter(B) Venus-Earth
(D) Jupiter-Saturn

Dentists use to see large image of the teeth of patients using

 (A) Convex mirror
 (B) Convex lens
 (C) Concave lens
 (D) Concave mirror

- 11. A human being has a horizontal field of view of about_____ with one eye and of about_____

 with
 both eyes

 (A) 120°, 150°
 (B) 150°, 180°

 (C) 180°, 210°
 (D) 210°,240°
- 12. To prevent electrical circuits from damage we use fuse wire of
 - (A) high resistance and low melting point (C) low resistance and low melting point
- (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

9.

- (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 conducto (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 ₂ O (C) C ₁₂ H ₂₂ O ₁₁	(B) C6H12O6 (D) CH3COOH
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) $(-CF_2 - CF_2 -)_n$	$(B) \begin{pmatrix} CH \\ \dots CH_2 - \\ CI \end{pmatrix}_n$
	(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 [CaSO4] [CaSO4 ½H2O]	(B) Calcium Sulphate Hemihydrate
	(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 between living organism and environment called - (A) Ecology (B) Phytogeography (C) Psychology (D) Mycology	
28.	In how many parts human brain is divided - (A) 4 (B) 5 (C) 3 (D) 2	
29.	Chromosome number in the daughter cells after meiosis is - (A) 1/2 (B) 1/3 (C) 1/4 (D) 1/5	
30.	The instrument for measuring blood pressure is called -(A) Manometer(C) Sphygmomanometer(C) Barometer(D) Potentiometer	
31.	The anther contains - (A) Sepal(B) Carpel(C) Petal(D) Pollen grains	
32.	The largest gland in human body is - (A) Pituitarygland (B) Liver (C) Adrenal gland (D) Thyroid gland	
33.	Which cell organelle is known as suicidal bag (A) Ribosome (B) Centrosome (C) Lysosome (D) Peroxysome	
34.	Plant part used as medicine of Terminalia arjuna- (A) Leaves (B) Fruits (C) Bark (D) Roots	
35.	Energy flow in an Ecosystem is – (A) Unidirectional (B) Bidirectional (C) Multidirectional (D) None of these	
36.	World Environment Day is celebrated on - (A) 5 June (B) 11 July (C) 16 October (D) 26 December	
37.	C₄ cycle mechanism is given by - (A) Hill (B) Arnan (C) Hatch & Slack (D) Celvin	
38.	Which pollutant is dangerous for Taj Mahal?(A) Sulphur dioxide SO,(B) Carbon dioxide CO,(C) Carbon monooxide CO(D) All of these	
39. 40.	Which of the following is an example of Insectivorous plant -(A) Amla(B) Baheda(C) Utricularia(D) IsoetesWhich is prokaryotic cell amongst the following?(A) Amoeba(B) Bacteria(C) Yeast(D) Volvox	

<u>HISTORY</u>

41.	Big Bath has been found in which of the Indus v (A) Harappa (B) Mohenjodaro	alley site? (C) Lothal	(D) Chahnudaro
42.	 Which statement about the position of women in (A) They enjoyed high status in the society. (B) Parda system and child marriages were previous (C) They had right to higher education, (D) Dowry was not known. 	v	s not true?
43.	When did the first urbanization take place? (A) In the new stone age (C) During he Mauryan period	(B) In the Indus Valley (D) During the Gupta p	
44.	Which ruler of ancient India is known as Devana (A) Bindusar (C) Ashoka	am Priyadasi? (B) Chandra Gupta Ma (D) Brihadatta	aurya
45.	 What are tripitakas? (A) Vedic Literature (B) Compilation of Buddha's sermons (C) Main principles of Lord Mahavira (D) Compilation of account of Alexander's invasional series 	ion into India	
46.	Which ruler followed the policy of 'Blood and Iro (A) Balban (C) Htutmish	n' for strengthening adm (B) Rajiya (D) Feroze-Shah-Tugl	
47.	Which king of the sultanate period is known as t (A) Mohd-bin-Tughlaq (C) Jalal-ud-din-Khilji	he mad sultan'? (B) Feroze-Shah-Tughl (D) Alauddin-Khilji	laq
48.	To which place of Madhya Pradesh is Jungle Sa (A) Reewa (B) Indore	atyagraha related? (C) Chhatarpur	(D) Seoni
49.	Who was the Governor General of India in 1857 (A) Dalhousie (B) William Bentick		(D) Rippon
50.	Who gave the slogan of Do or Die' during the Ind (A) Vipin Chandra Pal (C) Mahatma Gandhi	dian freedom struggle? (B) Lala Lajpat Rai (D) Bal Gangadhar Tila	ık
51.	 What was the main objective of British in dividing (A) To strengthen administrative system in Ber (B) To suppress nationalist feelings (C) To promote nationalist feelings (D) To help in promotion of language and culture 	ngal	
52.	Through which newspaper did Lala Lajpat F independence? (A) Kesari (C) Hindustan	Rai inspire the people (B) Samvad Kaumudi (D) Kayastha Samacha	
53.	Communal electorate was first introduced throug (A) 1773 Act (B) 1861Act	gh which Act? (C) 1909Act	(D) 1919Act
54.	Which Article of the Indian constitution gives a s(A) 370(B) 395	pecial status to the state (C) 368	e of Jammu & Kashmir? (D) 384
55.	How many times has National emergency been (A) One (B) Two	declared in India? (C) three	(D) Four

GEOGRAPHY

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

<u>CIVICS</u>

71.	In a parliamentary form of Government, ı (A) President (C) Prime-Minister	real powers of the State are vested in which body? (B) Chief Justice of Supreme Court (D) Parliament
72.	Which fundamental right of Indian Consti (A) Right against exploitation (C) Right to liberty	itution has been deleted by the 44th Amendment Act? (B) Right to property (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 Coi (A) Dr. B. R. Ambedkar (C) Jawaharlal Nehru	nstitution? (B) Mahatma Gandhi (D) Sardar Patel
75.	The term of member of the Rajya Sabha (A) 5 years (C) 6 years	is (B) 2 years (D) Same as that of the Lok Sabha
	EC	CONOMICS
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 classif (A) Employment conditions (C) Ownership of Enterprise	fied in 'Public' and 'Private' sectors? (B) Nature of Economic activities (D) Number of workers employed
78.	In ancient times, which country was know (A) France (C) J & K India	wn as 'Golden Sparrow'? (B) New Zealand (D) China
79.	In India, the first five-year plan started fro (A) 1947 (B) 1951	om which year? (C) 1948 (D) 1950
80.	In which of the following sectors only ser (A) In private sector (C) In secondary sector	vices are produced? (B) In primary sector (D) In tertiary sector
	MA	THEMATICS
81.	If in a right angled triangle ABC, $\cos A = \frac{6}{4}$	9 , 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 C=
	(A) ¹² / ₁₃	(B) <u>5</u> <u>13</u>
	(C) $\frac{5}{12}$	(D) $\frac{13}{5}$

83.	$(\sec\theta + \tan\theta)(1 - \sin\theta) = \dots$	
	(A) 0	(B) = 1
	$(C) \cos \theta$	(D) sinθ
84.	If $\tan \theta = \frac{1}{\sqrt{3}}$, then the value of	
	$\cos ec^2 \theta - \sec^2 \theta$	
	$\frac{\csc^2\theta - \sec^2\theta}{\csc^2\theta + \sec^2\theta}$ is	
	(A) \ \{3}	(B) 1
	(C) $\frac{1}{\sqrt{2}}$	(D) √2
85.	For what value of k, the equation $3x^2 + 2x + k = 0$	
	(A) $k \le \frac{1}{3}$	(B) $k \ge \frac{1}{3}$
	0	5
	(C) $k = \frac{2}{3}$ only	(D) None of the above
	Ŭ	
86.	The product of Meera's age 5 years ago and her a	
	(A) 11 years	(B) 9 years
	(C) 7 years	(D) 5 years
87.	The area of right angled triangle is 96sq mtr. If ba	se is three times the altitude, the length of base is
	(A) 24 mtr.	(B) 20 mtr.
	(C) 18 mtr.	(D) 15 mtr.
88.	What is the probability that a leap year has 53 Su	· _
	(A) $\frac{7}{53}$	(B) $\frac{7}{52}$
	(C) $\frac{1}{7}$	(D) $\frac{2}{7}$
	$(C) = \frac{1}{7}$	(D) $\frac{-}{7}$
89.	One card is drawn at random from a deck of 52 ca	
	(A) $\frac{3}{13}$	(B) $\frac{1}{26}$
	13	
	(C) $\frac{3}{26}$	(D) $\frac{4}{13}$
	20	13
90.		ter. What will be its area if its length is 23 meter
	more than its breadth?	(\mathbf{P}) 2420 meter ²
	(A) 1520 meter ² (C) 2480 meter ²	(B) 2420 meter ² (D) 2520 meter ²
91.	The total surface area of a cube is 864 cm ² . Its vo	
	(A) 3456 cm ³	(B) 432 cm ³
	(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 × 9m × 8m is :
	(A) 29m	(B) 17 m
	(C) 21m	(D) 19 m
93.	Which point on x-axis is equidistant from the point	A(7.6) and $B(-3.4)$?
50.	(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 vertic (A) Isosceles (C) Rightangled	ces 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	, 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) $\{x \mid x \in A \text{ and } x \in B\}$	(B) $\{x \mid x \in A \text{ or } x \in B\}$
	(C) $\{x \mid x \in A \text{ and } x \notin B\}$	(D) $\{x \mid x \notin A \text{ and } x \in B\}$
97.	If A is a non empty set, ϕ is empty set \cup and is u	niversal set, then $A \cap \phi =$
	(A) U	(B) a
	(C)	(D) A'
98.	Selling price of one things is $\frac{3}{2}$ times of its cost pri	ce. What will be the percentage of profit?
	(A) $20\frac{1}{2}$	(B) $25\frac{1}{4}$
	(A) $20\frac{1}{2}$ (C) $33\frac{1}{3}$	(D) 50
00	A cold a biovala to D on 200/ profit. D cold it to C	on 25% profit If C paid Do. 225 for it than what

99. A sold a bicycle to B on 20% profit. B sold it to C on 25% profit. If C paid Rs. 225 for it, then what was the cost price of bicycle to A?
(A) 110
(B) 125

(A) 110	(B) 125
(C) 120	(D) 150

100. The height of a cylinder is 14 cm and its curved surface area is 264 cm², the volume of cylinder is :(A) 308 cm³(B) 396 cm³(C) 1232 cm³(D) 1848 cm³