DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ASKED TO DO SO



ENTRANCE EXAMINATION - XI

DEFENCE CAREER ACADEMY, AURANGABAD.

As an ISO 9001 : 2008 - Certified

ENT : 2016 TIME : 2.00 Hrs.

Sr. No.

MAXIMUM MARKS : 100

CP.T.O.

QUESTION - BOOKLET

GENERAL INSTRUCTIONS

- 1. Do not carry any book, paper or any other material with you inside the Examination Hall.
- 2. Carry only writing material with you in the Examination Hall.
- 3. Keep the Hall Ticket with you ready for scrutiny.
- 4. Result of this Examination will be displayed on the Notice Board. The Result Sheet will include the successful/ qualified candidates ONLY.
- 5. All successful candidates indicated on the list shall present themselves for the invetview on the same day.
- 6. This Test Booklet contains 90 items (Questions). Each item comprises four responses (Answers). You have to select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, Choose Only One response for each item.
- 7. All the answers must be marked on the Answer Sheet only. Do not write anything on this Test Booklet.
- 8. 1 to 90 questions carry 1 marks, Q. No. 91 carries 10 marks and its is compulsory question.

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DEFENCE CAREER ACADEMY DGA Entrance Examination - 2016

- 8. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR QUESTION ETC. IF SO, GET IT REPLACED BY A NEW ONE.
- 9. Ask for a separate paper for rough work.
- 10. Read the questions carefully, Remember, answers are to be indicated in the Answer Sheet Only. Return the Test Booklet, Rough work papers and the Answer Sheet immediately when asked to do so. You are NOT permitted to take away with you any paper concerning the Examination.

ANSWER SHEET

- 11. The Answer Sheet contains 90 counts, each subdivided in four { (a) (b) (c) (d)} subdivisions for indicating the correct choice of answers. After having selected the correct choice from the test Booklet, you should indicate that choice by completely blackening the respective circle, DO NOT merely cross the circle. You should indicate correct answer by blackening ONLY ONE circle in each answer. Any answer having more than ONE blackened circle will be treated as WRONG answer.
- 12. Before starting the answering ensure that you have filled the complete information at the top of this Answer Sheet. Incomplete Answer Sheet will be regarded as invalid.

THANK YOU AND BEST OF LUCK

Q. 1 to 5 : Read the following passage carefully and answer the questions given at the end of it by choosing correct alternative answer.

Pablo Picasso showed his truly exceptional talent at a very young age. His first tool was the lapis (spanish for pencil) and he lernt to draw before he could talk. He was the only son in the family and was very good looking, so he was throughly spoilt. He hated school and often refused to go unless his doting arents allowed him to take one of his father's pet pigeons with him.

Apart from pigeons, his great love was art. When in 1891 his father, who was an amateure artist, got a job as a drawing teacher at a college, Pablo went with him to the college. He often watched his father paint and sometimes was allowed to help. One evening his father was painting a picture of their pigeons when he had to leave the room. He returned to find that Pablo had completed the picture, and it was so amazingly beautiful and lifelike that he gave his son his own palette and brushes and never painted again. Pablo was just 13 then.

- 1. As a body Pablo Picasso was
 - (a) ordinary looking but talented

(b) handsome and talented

- (c) beautiful and talented(d) handsome and hardworking
- 2. He was spoilt mostly because he was
 - (a) a smart boy.
 - (b) loved by one and all
 - (c) the only son in the family
 - (d) always surrounded by notorious boys.
- 3. Picasso went to school only when
 - (a) his friends accompanied him
 - (c) he was allowed to paint at school
- 4. When his father painted in the college, Pablo.
 - (a) occasionally helped him.
 - (c) always helped him

- (b) his father went with him
- (d) he was allowed to carry a pat with him.
- (b) rarely helped him.
- (d) invariable helped him
- 5. Pablo's father gave up painting because he
 - (a) did not like the job

- (b) retired from the college.
- (c) was impressed by his son's talent
- (d) lost interest in painting

Directions :In this section, you find a number of sentence, parts of which are printed in bold. You may also find only a group of words which is printed in bold. For each bold part, four words/phrases are listed below. Choose the word/phrase **nearest in meaning** to the bold part and blacken the corresponding space on the Answer Sheet.

6.	Lethargy			
	(a) serenity	(b) listlessness	(c) impassivity	(d) laxity
7.	Prognosis			
	(a) scheme	(b) forecast	(c) preface	(d) identification
*	DEFENCE CAREE	RACADEMY 1	Entrance Exam	nination - 2016 P.T.O.

8.	Emaciated			
	(a) very tall	(b) very sleepy	(c) very thin	(d) very aged
9.	Contract			
	(a) tract	(b) expand	(c) give	(d) abridge
10.	Inedible			
	(a) unfit for human con	sumption	(b) polluted	
	(c) vitiated		(d) eatable	
Dire	ections :Pick out the co	rrect Antonyms for eac	ch of the following w	vords.
11.	Anger			

	e			
	(a) party	(b) happiness	(c) approval	(d) love
12.	Obey			
	(a) attract	(b) disobey	(c) repel	(d) diffuse
13.	Come			
	(a) play	(b) fast	(c) go	(d) got
14.	Hard			
	(a) soft	(b) smooth	(c) delicate	(d) easy
15.	Wealthy			
	(a) wicked	(b) famous	(c) ill	(d) poor

Direction : In the following questions, some of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of the part is your answer. If there is no error, your answer is (d) i.e. No error.

- 16. Many a student (a) / have passed (b) / the I.I.T. examination (c) / No error (d)
- On the time (a) / of the opening ceremony of the theatre (b) / a large crowd had assembled (c) / No error (d)
- 18. Americans are accustomed to(a)/drinking coffee(b)/when a large crowd is assembled.(c)/No error (d)

Instruction : Find the word with correct spellings.

19.	a) Encoureging	b) Encoaraging	c) Encouraging	d) Incouraging
20.	a) Investigation	b) Envestigation	c) Invistigation	d) Investisation
21.	In \Box DEF, E-P-F. EF =	15 cm, PF = 10 cm. What	t is the ratio of A (\Box D	EP) to A (\Box DEF)
	a) 1 : 3	b) 3 : 1	c) 2 : 3	d) 3 : 2
22.		n \square DEF, DE = DF. \angle BAC tio of their corresponding		$(\square DEF) = 32 \text{ cm}^2 \text{ and } A (\square DEF) =$
	a) 16 :49	b) 49 : 16	c) 4 : 7	d) 7 : 4
23.	$ \Box ABC \sqcup \Box PQR. AB \Box PQR? $	= 6 cm, BC = 4 cm, AC	= 8 cm & PQ = 9 cm	n. what is the perimeter of,
	a) 54 cm	b) 27 cm	c) 18 cm	d) 36 cm
*	DEFENCE CAREE	ER ACADEMY 2	Entrance Exan	nination - 2016 P.T.O.

24.	\square MNP $_\square$ QSR. \angle M = 60°, \angle N = 40°, What is the measure of \angle R?			
	a) 140°	b) 120°	c) 60°	d) 80 ⁰
25.	\square PQRS is a cyclic of	quadrilateral. If the ratio of the	e angles PQRS is 2:0	5:5:x and what is value of x.
	a) 1	b) 2	c) 3	d) 4
26.	Where does the circ	cumcentre of a right angled t	triangle lie	
	a) In the interior of	the triangle	b) In the exterior o	f the triangle
	c) At the vertex of the	he right angle	d) At the midpoint	of the hypotenuse.
27.	What is the point of	f concurrence of the bisector	s of the angles of a tr	iangle known as?
	a) Circumcentre	b) Incentre	c) Orthocentre	d) Centroid
28.	-	andard position, if the initia the terminal arm be?	1 arm rotates 220° in	clockwise direction, then in
	a) Quadrant I	b) Quadrant II	c) Quadrant III	d) Quadrant IV
29.	-	ndard position, if the initial a the terminal arm be?	arm rotates 230° in an	ticlockwise direction, then in
	a) Quadrant I	b) Quadrant II	c) Quadrant III	d) Quadrant IV
30.	If $\cot \theta = -\frac{40}{9}$ and	θ is in quadrant II, then what	t is the value of $\cos \theta$?
	a) $\frac{40}{41}$	b) $-\frac{40}{41}$	c) $\frac{9}{41}$	d) $-\frac{9}{41}$
31.	What is the slope of	f aline having inclination 30°	?	
	a) $\frac{1}{2}$	b) 2	c) $\sqrt{3}$	d) $\frac{1}{\sqrt{3}}$
32.	What is the slope of	f aline having inclination 60°	?	
	a) $\frac{1}{2}$	b) 2	c) $\sqrt{3}$	d) $\frac{1}{\sqrt{3}}$
33.	What is the commo	n difference of the A.P. 239,	236, 233, ?	
	a) 3	b) -3	c) 4	d) -4
34.	For an A.P., if $a = 2$	and $d = 2.5$, then which is the		
~ ~	a) 17	b) 15	c) 13	d) 11
35.		k, if one root of the quadrat	-	
26	a) 1 What is the secles of	b) -1	c) 3	d) -3
36.		f k, if one of the roots of the $\frac{1}{2}$		+ kx + 12 = 0 is 2? d) -8
37.	a) 4 What is the value of	b) -4 f D for the simultaneous equations of the big of	c) 8 ations $3x - 2y = 6$ and	,
57.	a) 1	b) -1	$\begin{array}{c} \text{auons } 5x - 2y = 0 \text{ and} \\ \text{c) } 7 \end{array}$	d) -7
38.		,	·	re not repated. What is n (S) ?:
	a) 20	b) 16	c) 18	d) 14
*	DEFENCE CAP	REER ACADEMY 3	Entrance Exa	mination - 2016 P.T.O.

39.	A die is thrown. What is the probability of getting a multiple of 4?			
	a) $\frac{1}{6}$	b) $\frac{1}{3}$	c) $\frac{1}{2}$	d) $\frac{2}{3}$
40.	. How many three digit natural numbers are divisible by 4?			
	a) 225	b) 230	c) 235	d) 220
41.	The S.I. Unit of elec	etric current is?		
	a) Ampere	b) Candela	c) Mole	d) Mass
42.	The time taken by ea	orth to complete one rotation	n about its axis is	
	a) 12 hours	b) 16 hours	c) 24 hours	d) 365 days
43.	The rate of change o	f displacement with time is		
	a) Speed	b) acceleration	c) Retardation	d) Velocity
44.	A rocket works on th	e		
	a) First law of motio	n	b) Second law of n	notion
	c) Third law of motion	on	d) Law of conserva	ation of energy
45.	Pressure is a			
	a) Vector quantity	b) Scalar quantity	c) Normal force	d) buoyant force
46.	pH of water is 7 so i	t is.		
	a) acidic	b) basis	c) neutral	d) none of these
47.	The maximum no. of	f electrons that can be accord	modated in M shell of	an atom are.
	a) 8	b) 18	c) 32	d) 25
48.	The elements of grou	ıp 18 are		
	a) halogen		b) chalcogens	
	c) alkaline earth met	als	d) noble gases	
49.	The most abundant n	netal on the earth is		
	a) aluminium	b) gold	c) iron	d) copper
50.	Which of the follow	ing process is a physical cha	ange rather than a che	emical change?
	a) combustion	b) decomosition	c) distillation	d) neutralisation
51.	In humans, bile juice	is secreted by		
	a) Pancreas	b) small intestine	c) esophagus	d) Liver
52.	Oxygen is transporte	d in blood mainly by		
	a) leucoytes	b) erythrocytes	c) thrombocytes	d) blood plasma
53.	Nephrons are connect	cted with system		
	a) respiratory	b) nervous	c) excretory	d) circulatory
54.	The total no. of bone	s in the body of man is		
	a) 206	b) 205	c) 216	d) 636
55.	Which is the most s	table ecosystem?		
	a) Mountain	b) Ocean	c) Forest	d) Desert
			_	

39. A die is thrown. What is the probability of getting a multiple of 4?

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DEFENCE CAREER ACADEMY 4 Entrance Examination - 2016 P.T.O.

56.	Which is the most common form of democracy?		
	a) People's democracy	b) Revolutionary democracy	
	c) Responsive democracy	d) Representative democaracy	
57.	When were the elections for constituent assemb	bly held?	
	a) May 1940	b) July 1946	
	c) July 1956	d) January 1947	
58.	Political parties in India are facing the following	challenges.	
	a) Lack of internal democracy	b) Crises of leadership	
	c) Lack of unity among the opposition	d) All of these	
59.	The constitution of India		
	a) Divided powers between centre and states in t	hree lists	
	b) Divided powers between centre and states in t	wo lists	
	c) Divided powers between centre and and left th	e undefined powers to the state.	
	d) Specified the powers of the states and left the	residuary powers with the centre	
60.	Which religion did Austria and Spain favour?		
	a) Christian	b) The Catholic Church	
	c) The Orthodox Church	d) All of these	
61.	Complete the given statement.		
	The Red banners with the the Na the speeches were all part of this spectacle of po	zi salute, and the ritualised rounds of applause after wer.	
	a) Swastika b) OM	c) Cross d) Divide	
62.	Raw materials and money in hand are called		
	a) Agriculture b) Everything	c) Working capital d) Horticulture	
63.	Sarva Siksha Abhiyan is a significant step toward	s providing elementary education to all children in	
	the age group of six years to		
	a) Fifteen years b) Ten years	c) Nine years d) Fourteen years	
64.	The term NSSO stands for		
	a) New Sample Survey Organisation	b) National Sample Survey	
	c) National Simple Survey Organisation	d) National Sample Surety Organisation	
65.	Public Distribution System (PDS) is the most is towards.	mportant step taken by the Government of India	
	a) Ensuring water Security	b) Ensuring milk Security	
	c) Ensuring food Security	d) Ensuring fans Security	
66.	The organisations that monitor and issue ISI, Aguse their logos provided they follow certain.	mark or Hallmark certificates allow producers to	
	a) Work Permit b) Quality standards	c) Debit card d) Topic of press	
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67.	0 1	ands lying in the Arabin Sea		
	a) Lakshadweep	b) Andaman and Nicobar	c) Nicobar	d) Andaman
68.	The largest state of I	ndia in terms of size is		
	a) Maharashtra	b) Madhya Pradesh	c) Uttar Pradesh	d) Rajasthan
69.	Name the longest we	estward flowing river of Pen	insular India.	
	a) Ganga	b) Yamuna	c) Narmada	d) All of these
70.	is the	e only country in the world the	hat has both tigers and	lions.
	a) China	b) India	c) Kenya	d) Indonesia
71.	A large proportion o	f children in a population are	e a result of	
	a) High brith rates	b) High life expectancies	c) High death rates	d) More married couples
72.	Which one of the fol	llowing is a leguminous crop	o?	
	a) Pulses	b) Jawar	c) Millets	d) Sesamum
73.	Who has won the be	st actor award at the 63rd Na	ational Film Awards 20	016?
	a) Ranjeet Singh	b) Shahid Kapoor	c) Amitabh Bachchar	n d)Salman Khan
74.	The 2017 FIFA U-17	World Cup will be hosted b	by which country?	
	a) India	b) France	c) Sri Lanka	d) Vietnam
75.	The ITBP's weapon Pradesh?	and support weapon training	g centre will be set up	in which district of Madhya
	a) Bhopal	b) Chhindwara	c) Indore	d) Damoh
76.	How many times has	India won the gold medal in	n men's hockey at the A	Asian Games?
	a) Two	b) Three	c) Four	d) Five
77.	What was the name terrorist attack in Tag	•	ucted by National Sec	urity Guard in 2008 against
	a) Operation Black 7	Tornado	b) Operation Black	Thunder
	c) Operation Safed S	agar	d) Operation Vijay	
78.	The commando unit	of the Indian Air Force is na	med	
	a) Baaz	b) Garud	c) MARCOS	d) Ghatak
89.	Who of the followin	g was the Chief of Army at t	the time of Indo-Pak w	var of 1971?
	a) General PP Kuma	ramangalam	b) Field Marshall SH	IFJ Manekshaw
	c) General JN Chauc	lhari	d) General KS Thim	аууа
80.	Who was the only Provide the only Provid	rime Minister of India to be	awarded the Nishan-e	-Pakistan, Pakistan's highest
	a) Atal Bihari Vajpay	ree	b) Morarji Desai	
	c) Indira Gandhi		d) PV Narasimha Ra	0
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PART - II

Question : 10

INTELLIGENCE QUESTION TEST

Mark: 10

Que	stion : 10	INTELLIG	ENCE QUESTION TEST	Mark : 10
			ES COMPLETION JMBER SERIES	
81.	4, 12, 36, 108, ()		
	a) 324	b) 243	c) 348	d) 162
		L	ETTER SERIES	
82.	AZ, CX, EV, ?			
	a) TG	b) GT	c) IQ	d) MP
		COD	ING - DECODING	
83.	If in a certain lang	guage, MACHINE is c	oded as LBBIHOD, which would	ld be coded as SLTMFNB?
	a) RKSLEMA	b) TKULGMC	c) RMSNEOA	d) TMUNGOC
		BLC	OOD RELATIONS	
84.	Sohan introduces Sohan?	Mohan as the son of the	he only brother of his father's wi	fe. How is Mohan related to
	a) Cousin	b) Son	c) Uncle	d) Brother
		<u>REI</u>	LATION PUZZLE	
85.	Pointing to Ketar related to Namra		the son of my father's only son	." How is Ketan's mother
	a) Daughter	b) Sister	c) Sister-in-Law	d) Aunt
86.	-	a girl in the picture, S its related to the girl in	arita said, "She is the mother of n the picture?	Neha whose faterh is my
	a) Mother	b) Aunt	c) Sister	d) None of these
		DIREC	CTION SENSE TEST	
87.	A man is perform direction will his		l down and legs up. His face is t	owards the west. In which
	a) North	b) South	c) East	d) West
		LOGICA	AL VENN DIAGRAMS	
88.		e following Venn diag Nurse, Human being	rams correctly illustrates the rel	ationship among the
		30 0		
	a)	b)	c) d)	

★ DEFENCE CAREER ACADEMY 7 Entrance Examination - 2016 P.T.O.

INSERTING THE MISSING CHARACTER

Directions : Find the missing character in each of the following questions.



SITUATION REACTION TEST

Directions : To each of the following questions, four probable answers have been given as alternatives. Select the best alternatives as your answer.

- 90. You find that a person whom you call your friends has been cheating you. What would you do?
 - a) Break relations with him/her.

b) Give him/her tit for tat.

- c) Make him/her realise his/her mistake.
- d) Tell other friends about him/her.

PART - III

10 M

Direction :- Write an essay on any of the following.

- 91. 1) If I were the Prime Minister of India
 - 2) My favorite Game
 - 3) Water pollution

