

**RASHTRIYA INDIAN MILITARY COLLEGE, DEHRADUN**  
**ENTRANCE EXAMINATION- JUNE 2018**  
**SUBJECT: ENGLISH**

Time 2Hours

MM: 125

**INSTRUCTIONS:**

1. Read all the questions thoroughly before answering. 2. The question paper can be retained by the candidates post exam. 3. The question paper comprises three sections.

(a) Reading Section - 20 Marks (b) Writing Section - 50 Marks (c) Grammar- 55 Marks

**READING SECTION (20 MARKS)**

**Q1.** Read the extract given below and answer the questions. **(5 Marks)**

In this work of incessant and feverish activity, men have little time to think much less to consider ideals and objectives. Yet how are we to act, even in the present, unless we know which way we are going and what our objectives are? It is only in the peaceful atmosphere of a university that these basic problems can be adequately considered. It is only when the young men and women, who are in the university today and on whom the burden of life's problems will fall tomorrow, learn to have clear objectives and standards of values that there is hope for the next generation. The generation produced some great men but as a generation on man's part in this generation.

I think that there is always a close and intimate relationship between the end we aim at and the means adopted to attain it. Even if the end is right but the means are wrong. It will vitiate the end or divert us in a wrong direction. Means and ends are thus intimately and inextricably connected and cannot be separated. That, indeed, has been the lesson of old taught to us by great men in the past, but unfortunately it is seldom remembered.

- (a) Why do people have little time to consider ideals and objectives?
- (b) What does 'the burden of life's problems' refer to?
- (c) What is the reason for two world wars?
- (d) What according to the writer 'the adoption of wrong means even for the right end' lead to?
- (e) Find the words in the passage which are similar in meaning to the given words: -
  - (i) Blemish
  - (ii) Untied

**Q2.** Read the poem given below and fill the blanks that follow. **(05 Marks)**

**LIFE STILL HAS A MEANING**

If there is a future there is time for mending.  
Time to see your troubles come to an ending  
Life is never hopeless however great your sorrow,  
If you're looking forward to a new tomorrow.  
If there is time for wishing them there is time for hoping,  
When through doubt and darkness you are blindly groping.  
Though the heart be heavy and hurt you may be feeling.  
If there is time for praying there is a new day breaking.  
Thank God for the promise though mind and soul be aching.  
If with harvest over there is grain enough for gleaning.  
There is a new tomorrow and life still has meaning.

- (a) Life is never hopeless when\_\_\_\_\_.
- (b) We should offer our thanks to God when\_\_\_\_\_.

- (c) If there is a good harvest then there is a hope for\_\_\_\_\_.
- (d) If you are able to pray God in the days of deep sorrow so there is chance for\_\_\_\_\_.
- (e) If anybody has courage to face problems, in future his troubles\_\_\_\_\_.

**Q3.** Write the summary of the following passage in your own words. No marks will be awarded for the copied sentences. **(10 Marks)**

Yoga originated in ancient India thousands of years ago, long before the first religion or belief system was born. It is believed that Shiva is the first Yogi or Adiyogi and the first guru. Thousands of years ago, on the banks of Lake Kantisarovar in Himalayas, Adiyogi shared his knowledge into legendary seven sages as it was hard to put all his wisdom and knowledge in one person. The sages took this powerful Yogic science to various part of the world including Asia, North Africa, Middle East, and South America. India is blessed to have found the Yogic system in its fullest expression.

The fossil remains of Indus-Saraswati civilisations are an evidence of the presence of Yoga in ancient India. The presence finds a mention in the folk traditions. It is included in the Indus Valley civilisation, Buddhist and Jain traditions. According to the studies, Yoga was being practiced under the direct guidance of a Guru and its spiritual value was given a lot of importance. Sun was given the highest importance during Vedic period and that's how Suryanamaskar was invented later on.

However, Maharishi Patanjali is known as the father of modern Yoga. He did not invent Yoga as it was there in various forms. He assimilated it into the system. He saw it was getting quite complex for anyone to understand it in any meaningful way. So he assimilated and included all aspects into a certain format-Yoga Sutras. The role of breath is very important in the practice of Asana or Yoga positions. Breath is a vital force and our body requirement of oxygen changes depending on our actions. If we exercise then we require more oxygen hence breathing becomes faster and if we are relaxing then our breathing becomes relaxed and deep. In yoga, the focus is integrated on Breath while indulging in slow movements as well as while doing complete Asana. Yoga promotes smooth and relaxed inhalation and exhalation during the practice.

### **SECTION B WRITING (50 MARKS)**

**Q4.** Write an essay on **ANY TWO** in about 120 words:- **(10 Marks)**

- (a) The journey of a thousand miles begins with a single step.
- (b) Need to educate the girl child.
- (c) Freedom of speech.

**Q5.** Write a story on the basis of the clue given below: (100-120 words) **(10 Marks)**

A young boy-travelling by a train – has a brief case containing a lot of money – befriends a fellow traveler-train stops – boy goes out to buy snacks – returns-briefcase gone.

**Q6.** Write a composition on **ANY TWO** in about 120 words. **(10 Marks)**

- (a) Failures are the stepping stones to success.
- (b) When the going gets tough, the tough get going.
- (c) Time and tide wait for none.

**Q7.** Write a letter to the editor of the Times of India expressing your views about how students are distracted by Facebook and Whatsapp from their studies. Sign yourself as XYZ, a resident of Dehradun, Uttarakhand. **(10 Marks)**

**Q8.** As a concerned resident you are worried about the harmful effects of insanitary conditions in your town. Write a speech on the necessity of sanitation to be given in the morning assembly in about 150.200 words. **(10 Marks)**

### **SECTION-C GRAMMAR (55 MARKS)**

**Q9.** Rewrite the following using correct tenses: -

**(03 Marks)**

(a) My brother went to play football before my father wake up.

(b) Have you told your mother yesterday about your plans to join the new company?

(c) She will complete the work before noon tomorrow.

**Q10.** Fill in the blanks with appropriate preposition.

**(03 Marks)**

(a) My uncle is an authority \_\_\_\_\_ Mathematics.

(i) At (ii) In (iii) On (iv) For

(b) He is intolerant \_\_\_\_\_ anything concerning racism.

(i) About (ii) On (iii) Of (iv) At

(c) My friend is \_\_\_\_\_ the theatre, buying sweets from nearby shop.

(i) In (ii) At (iii) By (iv) Before

**Q11.** Choose the correct answer from the given options that give the same meaning as the idioms given below. Write the answers in your answer book.

**(03 Marks)**

(a) A risky number: -

(i) A lucky number (ii) A comfortable job (iii) A job that involves a lot of calculations  
(iv) A number which is difficult to remember

(b) A black swan: -

(i) Something rare and unique (ii) Something ugly (iii) A capable person (iv) Something out dated

(c) On the mat

(i) To be surprised (ii) To be praised (iii) To be rebuked (iv) To be beaten

**Q12.** Change the following into direct or indirect speech.

**(04 Marks)**

(a) Tom said to Ram, "What did you do yesterday?"

(b) They said, "Hurrah! We won the match easily."

(c) My sister told me that a smooth sea never made a skillful sailor.

(d) My father told me that he saw what I was doing.

**Q13.** Fill in the blanks with right form of the verbs.

**(05 Marks)**

(a) For three weeks, she behaved as if nothing \_\_\_\_\_ (change)

(b) I \_\_\_\_\_ you at the entrance of the mall in another two hours. (Meet)

(c) Listen! The wolves \_\_\_\_\_ at the full moon. (howling)

(d) Alexa \_\_\_\_\_ (leave) for her class two hours ago.

(e) This \_\_\_\_\_ not make any sense. Why would he leave without saying goodbye? (do)

**Q14.** Fill in the blanks with appropriate phrasal verbs.

**(05 Marks)**

(a) The rope \_\_\_\_\_ while they were hauling up the pillar.

(i) Gave up (ii) Gave in (iii) Gave way (iv) Gave out

(b) The horrible weather \_\_\_\_\_ me \_\_\_\_\_.

(i) Puts down (ii) Breaks down (iii) Gets down (iv) Works down

(c) John is a rich man because he \_\_\_\_\_ a lot of money last year.

(i) Fell behind (ii) Came into (iii) Went through

(d) I had better leave, I don't want to \_\_\_\_\_ my welcome.

(i) Give up (ii) Take in (iii) Wear out (iv) Go off

(e) Unfortunately my trip to Indonesia \_\_\_\_\_ because I couldn't save money.

(i) Fell through (ii) Wash away (iii) Turn up (iv) Try out

**Q15.** Choose a word which is nearest in meaning to the word given in bold.

**(05 Marks)**

(a) Factory workers are **RESTIVE** as the company has not declared any bonus this year.

(i) Restful (ii) Restless (iii) Resting (iv) Satisfied

(b) Even the most careful researcher cannot predict the possible **RAMIFICATIONS** of his findings.

- (i) Uses                      (ii) Developments                      (iii) Consequences                      (iv) Conclusions

(c) Buoyed by these visions of the future of his son, the artist **SOLDIERED ON**.

- (i) Continued bravely                      (ii) Stopped further                      (iii) Struggled hard                      (iv) Fought on

(d) The relics of the Roman rule are still **EXTANT** in England.

- (i) Hidden                      (ii) Scattered                      (iii) Existent                      (iv) Spread

(e) The invading force had no artillery and was completely **ANNIHILATED**.

- (i) Reduced                      (ii) Destroyed                      (iii) Dismembered                      (iv) Split

**Q16.** Choose the alternative that best expresses the meaning of the expression. **(04 Marks)**

(a) MAKE NO BONES ABOUT

- (i) To make no effort                      (ii) To admit something readily  
(iii) To make fuss about                      (iv) To create no hindrance

(b) CALL ONE'S SHOT

- (i) Make intentions clear                      (ii) Call with a shot  
(iii) Shoot at a call                      (iv) To show determination

(c) CUT NO ICE WITH ME

- (i) Had no influence on me                      (ii) Did not hurt me  
(iii) Did not benefit me                      (iv) Did not make me proud

(d) TO KICK THE BUCKET

- (i) To start an account                      (ii) To start a serious journey  
(iii) To die                      (iv) To start agriculture activity

**Q17.** Complete each sentence with the correct word from the given pair of confusing words. **(04 Marks)**

(a) To \_\_\_\_\_ the required information, one should know how to ask or set questions.  
(Elicit/ Illicit)

(b) It is \_\_\_\_\_ that our leaders possess both ability and personality. (Imperative/Impervious)

(c) Don't provoke her further so as to allow her \_\_\_\_\_ anger to die down.  
(Momentary/ Momentous)

(d) I like writing and have published books regularly. Am I considered a \_\_\_\_\_ writer?  
(Prolific/Prolix)

**Q18.** Change the following sentences into passive voice. **(05 Marks)**

(a) Men with slide rulers used to do these calculations; now a computer does them.

(b) Why did no one inform me of the change of plan?

(c) I am afraid we have sold all our copies but we have ordered more.

(d) You are to leave this here. Someone will call for it later on.

(e) We have to pick the fruit very early in the morning; otherwise we can't get it to the Market.

**Q19.** Put the following into indirect speech: - **(05 Marks)**

(a) 'It isn't so foggy as it was yesterday', I remarked.

(b) 'I'll come with you as soon as I am ready', she replied.

(c) 'How far is it?', I said, 'and how long will it take me to get these?'

(d) 'Are you sorry for what you did?', the mother asked the little boy.

(e) 'Make good use of your time. You won't get such an opportunity again', he said to us.

**Q20.** In each of the following questions, choose the alternative which is closest to the opposite in meaning of the underlined word or phrase in the sentence. **(04 Marks)**

(a) He is quite industrious.

- (i) Hard working                      (ii) Lazy                      (iii) Indifferent                      (iv) Indisposed

(b) People who are actually running the system often take a myopic view of the situation.

- (i) Blind                      (ii) Glassy                      (iii) Visionary                      (iv) Farsighted
- (c) They had an insipid conversation
- (i) Curious                      (ii) Loud                      (iii) Argumentative                      (iv) Lively
- (d) The chief Minister was given a warm welcome at the onset of the function.
- (i) Hindrance                      (ii) Finale                      (iii) Commencement                      (iv) Conclusion

**Q21.** In each of the following questions, out of the given alternative, choose the one which can best replace the underlined word in the sentence without changing the meaning of the sentence.                      **(05 Marks)**

- (a) Hearing the news, the workers were in a state of euphoria
- (i) Pleasant excitement                      (ii) Utter depression                      (iii) Intense indignation                      (iv) Greater disorder
- (b) Some people adopt excellent manners only to camouflage their real character.
- (i) Project                      (ii) Misrepresent                      (iii) Hide                      (iv) Reveal
- (c) The new scheme was aimed at prohibiting all people from imbibing alcoholic drinks.
- (i) Offering                      (ii) Smuggling                      (iii) Preparing                      (iv) Drinking
- (d) The guests were offended by his uncouth manners.
- (i) Wasteful                      (ii) Undesirable                      (iii) Dirty                      (iv) Ungracious





**RASHTRIYA INDIAN MILITARY COLLEGE, DEHRADUN**  
**ENTRANCE EXAMINATION- JUNE 2018**  
**SUBJECT: MATHEMATICS**

**TIME: 1 Hr 30 Mins**

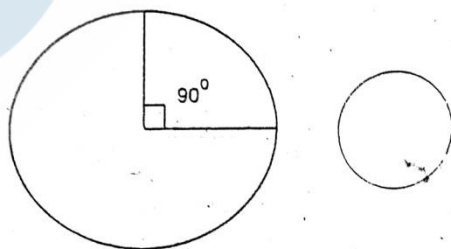
**MM: 200**

**Instructions:**

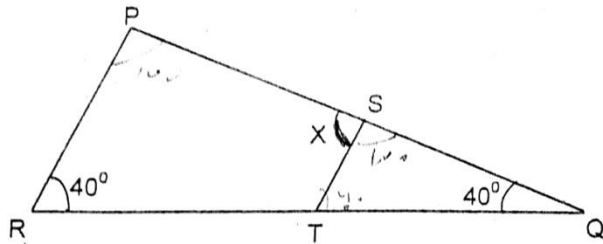
1. Attempt all 30 questions. Write your answers separately on the answer sheet to be provided at the exam centre. 2. Part 'A' contains 20 questions and each question in this part carries 'Five marks'. 3. Part 'B' contains 10 questions and each question in this part carries 'Ten marks'. 4. Use of Calculator is prohibited. Marks will be awarded for steps. 5. Take the value of  $\pi$  as  $\frac{22}{7}$ . 6. The question paper can be retained by the candidates post exam.

**PART A (20 x 5=100 MARKS)**

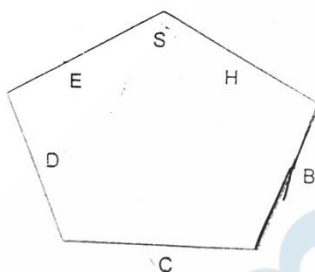
- Q1.** Find the least number which when divided by 8, 14, 20, 25 and leaves 4 as remainder in each case.
- Q2.** By reducing the selling price of an article by 50 dollars, a gain of 5% turns into a loss of 5%. Find the original selling price of the article.
- Q3.** If  $\frac{3}{5}$ th of a number exceeds its  $\frac{2}{7}$ th by 44, find the number.
- Q4.** Abhimanyu weight 56.7kg. If he reduces his weight in the ratio 7:6. Find his new weight.
- Q5.** Tanmaya was asked to multiply a given number by  $\frac{4}{5}$ . By mistake, he divided the number by  $\frac{4}{5}$ . His answer was 36 more than the correct answer. What was the given number?
- Q6.** On selling 33 meters of cloth, Vishal obtains a profit equal to the selling price of 11 meters of same cloth. Find the profit percentage.
- Q7.** Factorize:  $x^3 - x^2 + ax + x - a - 1$ .
- Q8.** Each interior angle of a regular polygon is  $144^\circ$ . Find the interior angle of a regular polygon which has double the number of sides as in the first polygon.
- Q9.** Area of a square is  $16\text{cm}^2$ . Find the area of the square joining the mid points of the sides.
- Q10.** Factorize:  $-2x^2 - 17xy + 26y^2$ .
- Q11.** Divide:  $-x^4 + y^4$  by  $(x-y)$
- Q12.** The first figure given below shows a wire in circular shape with the radius of 80cm. Shyam cut out an arc from wire such that the arc makes an angle of  $90^\circ$  at the centre. If this arc is again bent in circular shapes as shown in the second picture. Find the radius of the new circle.



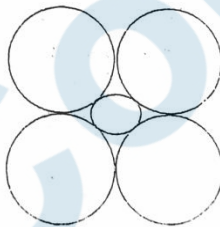
**Q13.** If line PR & ST are parallel to each other, find the value of angle x.



**Q14.** A cat is walking on the periphery of a regular polygon, as shown below, if it starts from point S, in the clock wise direction, which side will the cat reach after walking  $\frac{18}{25}$  distance on the periphery?



**Q15.** In the image given below, if the radius of all the large circles is r, then what is the radius of the inner smaller circle?



**Q16.** In a family, the father took  $\frac{1}{4}$  of the cake and he had 3 times as much as others had. The total number of family member is?

**Q17.** Factorize:  $-(a + b)(x + y) + (2a + 3)(x + y) - (3a + 4b)(x + y)$

**Q18.** Two adjacent angles of a parallelogram are in the ratio of 2:3. Find the measures of all the angles of the parallelogram.

**Q19.** Find the largest four digit number which is exactly divisible by 459.

**Q20.** In what time will the simple interest on a certain sum of money at  $\frac{25}{4}\%$  per annum be  $\frac{3}{8}$ th of itself?

#### PART B (10 X 10 – 100 MARKS)

**Q21.** Simplify:  $-23x - [15y - \{4y - 2(3x - 2y) - 3(3x - 2x - y)\}]$

**Q22.** Three cubes of silver with edges 3cm, 4cm and 5cm are melted and recast into a single cube. Find the cost of coating the entire surface of the new cube with gold the rate of Rs. 350 per square centimeter.

**Q23.** Find the value of-

$$(a) \left(\frac{x^m}{x^n}\right)^{m+n} \cdot \left(\frac{x^n}{x^k}\right)^{n+k} \cdot \left(\frac{x^k}{x^m}\right)^{k+m}$$

$$(b) \frac{1}{1+x^{m-n}} + \frac{1}{1+x^{n-m}}$$

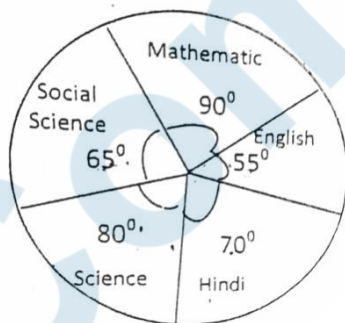
**Q24.** Divide Rs. 1200/- into two parts such that the simple interest on the first part for 2 yrs at 6% per annum is equal to the simple interest on the second part for 3 yrs at 8% annum.

**Q25.** Shyam completes a journey of 360km in  $5\frac{3}{4}$  hours by a car. If he covers the first three-fourth of the journey at 60km/hr, find the speed of the car for the balance of the journey.

**Q26.** What number should be added to each of the numbers 3, 5, 13 and 19 so that the resulting numbers may be in proportion?

**Q27.** The following graph gives the marks scored by a student in different subjects, English, Hindi, Mathematics, Science and Social Science in an examination. Assuming that the total marks obtained for the examination are 540, answer the question below: -

- The marks scored in English, Science and Social Science exceeds the marks scored in Hindi and Mathematics by: how much?
- The marks scored in Hindi and Mathematics exceeds the marks scored in English and Social Science by how much?
- The subjects in which the student scored 105 marks is.
- The subject in which marks obtained are 22.2% is.
- The difference of marks between English & Science is the same as between which two other subjects.



**Q28.** A wall 4.84 m long and 3.1 m high is to be covered both sides with rectangular tiles of size 22cm x 10cm. find the total cost of the tiles at the rate of Rs.12 per tile.

**Q29.** After allowing a discount of 10% on M.P., a shopkeeper charges Rs 540 for a watch. Had he not allowed any discounts, he would have made a profit of 20%. What was the C.P. of the watch?

**Q30.** Find the measure of each lettered angle.

