

SOLVED PAPER

SSC COMBINED GRADUATE LEVEL EXAM

Held on:- 19-06-2011

(First Sitting)

PART A

GENERAL INTELLIGENCE & REASONING

Directions: In questions no. 1 to 9, select the related letters/word/number from the given alternatives.

1. CFIL : ORUX :: DGJM : ?
(A) HILN (B) NQST
(C) PSVY (D) RTVX
2. BEHK : YVSP :: DGJM : ?
(A) JGDA (B) ROLI
(C) WTQUN (D) ZWTQ
3. 24 : 60 :: 120 : ?
(A) 160 (B) 220
(C) 300 (D) 108
4. 392 : 28 :: 722 : ?
(A) 18 (B) 28
(C) 38 (D) 48
5. 123 : 36 :: 221 : ?
(A) 52 (B) 69
(C) 72 (D) 25
6. Timid : Ass :: Cunning : ?
(A) Ant (B) Fox
(C) Rabbit (D) Horse
7. Ecstasy : Gloom :: ?
(A) Congratulations : Occasion
(B) Diligent : Successful

- (C) Measure : Scale
(D) Humiliation : Exaltation

8. Architect : Building :: Sculptor : ?
(A) Museum (B) Stone
(C) Chisel (D) Statue
9. MKQO : LNPR :: ? : XVTZ
(A) YSUW (B) SVWY
(C) VTWY (D) WYTS

Directions: In question no. 10 to 15, find the odd number / letters / word from the given alternatives.

10. (A) PQXZ (B) BCQN
(C) ABDF (D) MNPR
11. (A) ABYZ (B) CDWX
(C) EFUV (D) GHTV
12. (A) 626 (B) 841
(C) 962 (D) 1090
13. (A) 5720 (B) 6710
(C) 2640 (D) 4270
14. (A) Swimming (B) Sailing
(C) Diving (D) Driving
15. (A) Perception (B) Discernment
(C) Penetration (D) Insinuation

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Directions: In question no. 16, from among the given alternatives select the one in which the set of numbers is most like the set of number given in the question.

Given Set: (4, 25, 81)

16. (A) (4, 36, 79) (B) (9, 48, 81)
 (C) (16, 64, 100) (D) (9, 49, 143)
17. In the following question, number of letters are skipped in between by a particular rule. Which of the following series observe the rule?
 (A) BAFHTU (B) ACEGJL
 (C) ACFIOU (D) ADFHJL

Directions: In question no. 18, which one of the given responses would be a meaningful order of the following?

18. 1. Ocean 2. Rivulet 3. Sea
 4. Glacier 5. River
 (A) 5, 2, 3, 1, 4 (B) 4, 2, 5, 3, 1
 (C) 5, 2, 3, 4, 1 (D) 4, 2, 1, 3, 5

Directions: Arrange the following words as per order in the dictionary.

19. 1. Preposition 2. Preparatively
 3. Preposterous 4. Preponderate
 5. Preposess
 (A) 2, 4, 1, 5, 3 (B) 1, 5, 2, 4, 3
 (C) 5, 4, 2, 3, 1 (D) 4, 2, 5, 1, 3
20. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

ac_cab_baca_aba_aca_

- (A) acbcc (B) aacbc
 (C) babbb (D) bcbba

Directions: In questions no. 21 to 24, a series is given, with one/two term(s) missing. Choose the correct alternative

21. ?, DREQ, GUHT, JXKW
 (A) EFRS (B) TGSP
 (C) JWVI (D) AQBN

22. 56, 90, 132, 184, 218, ?
 (A) 368 (B) 316
 (C) 362 (D) 326

23. 0, 4, 8, 24, 64, 176, ?
 (A) 180 (B) 480
 (C) 280 (D) 300

24. WTPMIFB ? ?
 (A) ZV (B) XU
 (C) YU (D) YV

25. Mrs. Susheela celebrated her wedding anniversary on Tuesday, 30th September 1997. When will she celebrate her next wedding anniversary on the same day?
 (A) 30 September 2003
 (B) 30 September 2004
 (C) 30 September 2002
 (D) 30 October 2003

26. A clock gains five minutes every hour. What will be the angle traversed by the second hand in one minute?
 (A) 360° (B) 360.5°
 (C) 390° (D) 380°

27. B is twice as old as A but twice younger than F. C is half the age of A but is twice older than D. Who is the second oldest?
 (A) B (B) F
 (C) D (D) C

28. A two member committee comprising of one male and one female member is to be constituted out of five male and three females. Amongst the females, Ms. A refuses to be a member of the committee in which Mr. B is taken as the member. In how many different way can the committee be constituted?

- (A) 11 (B) 12
 (C) 13 (D) 14

29. Find the wrong number in the series.

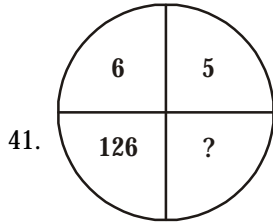
- 6, 12, 21, 32, 45, 60
 (A) 6 (B) 12
 (C) 21 (D) 32

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30. Ramesh ranks 13th in a class of 33 students. There are 5 students below Suresh rankwise. How many students are there between Ramesh and Suresh?
 (A) 12 (B) 14
 (C) 15 (D) 16
31. Naresh's age is 4 years less than twice the age of his brother. Which of the following represents the equation to find his age?
 (A) $2x + 4$ (B) $4x + 2$
 (C) $x - 4$ (D) $2x - 4$
32. Suresh's sister is the wife of Ram. Ram is Rani's brother Ram's father is Madhur. Sheetal is Rams's grandmother. Reema is Sheetal's daughter-in-law. Rohit is Rani's brother's son. Who is Rohit to Suresh?
 (A) Brother-in-law (B) Son
 (C) Brother (D) Nephew
33. In a survey, 70% of those surveyed owned a car and 75% of those surveyed owned a TV. If 55% owned both a car and a TV. What percent of those surveyed did not own either a car or a TV?
 (A) 25% (B) 20%
 (C) 10% (D) 5%
34. If DANCE is coded as GXQZH, then how will RIGHT be coded?
 (A) UFJEW (B) SCKFX
 (C) UEJWE (D) UPWJE
35. If LOSS is coded as 1357 and GAIN is coded as 2468, what do the figures 84615 stand for?
 (A) NAILS (B) SNAIL
 (C) LANES (D) SLAIN
36. A statement is given followed by four alternative arguments. Select the alternative which is most appropriate.
Statement
 Is it necessary that education should be job oriented?
- I. Yes, the aim of education is to prepare persons for earning.
 II. Yes, educated person should stand on his own feet after completion of education.
 III. No, education should be for sake of knowledge only.
 IV. No, one may take up agriculture where education is not necessary.
 (A) Only I and II arguments are strong
 (B) Only III and IV arguments are strong
 (C) Only I arguments is strong
 (D) Only I and III arguments are strong
37. A man started walking West. He turns right, then right again and finally turns left. Towards which direction was he walks now?
 (A) North (B) South
 (C) West (D) East
38. Sudha travels 8 km to the South. Then 8 km turns to the right and walks 4 km. The again she turns to her right and moves 8 km forward. How many km away is the from alerting point?
 (A) 7 (B) 6
 (C) 1 (D) 8
39. From the given alternatives words, select the words which **cannot** be formed using the letters of the given word:
 'COMPREHENSION'
 (A) COMPRISE (B) PENSION
 (C) ONIOX (D) PREACH
40. From the given alternatives words, select the word which can be formed using the letter of the given word
 'MULTIPLACATION'
 (A) MUTUAL (B) LIMITATION
 (C) APPLICATION (D) NOTION

Directions: In questions no. 41 and 42, select the missing number from the given responses.

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- (A) 127 (B) 31
(C) 217 (D) 328

42.

2	1	2
21	22	?
1	2	5
20	23	43

- (A) 40 (B) 48
(C) 50 (D) 36

43. If '-' stands for division, '+' stands for subtraction, '÷' stands for multiplication, '×' stands for addition, then which one of the following equation is correct?

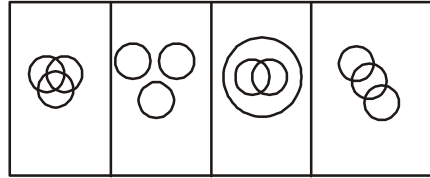
- (A) $70 \div 2 - 4 \times 5 + 6 = 44$
(B) $70 \div 2 - 4 \times 5 + 6 = 21$
(C) $70 - 2 + 4 \div 5 \times 6 = 341$
(D) $70 - 2 + 4 \div 5 \times 6 = 98$

44. The school result is increasing year after year. Forecast the result of 2012 from the following information.

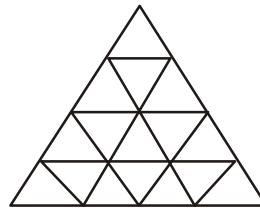
Year	2006	2007	2008	2009	2010	2011	2012
→							
Result	34.25%	36.75%	39.75%	43.25%	47.25%	51.75%	?
→							

- (A) 51.75% (B) 56.75%
(C) 48.00% (D) 57.25%

45. Which diagram correctly represents the relationship between politicians, poets and women?



46. How many triangles are there in the following figures?



- (A) 29 (B) 27
(C) 23 (D) 30

47. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

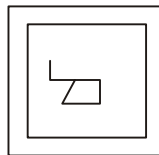
If $324 \times 289 - 35, 441 \times 484 = 43$.

$625 \times 400 = 45$, find the value of 256×729 .

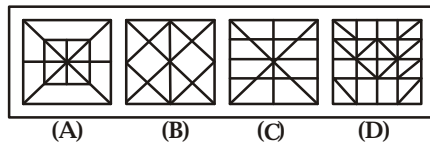
- (A) 33 (B) 35
(C) 43 (D) 34

Directions: From the given answer figures select the one in which the question figure hidden/embedded.

48. Question figure



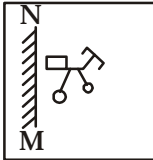
Answer figures:



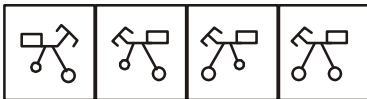
Directions: If a mirror is placed on the line MN, then which of the answer figures is the correct image of the given question figure?

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49. Question figure :

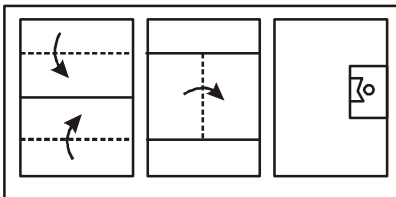


Answer figures:

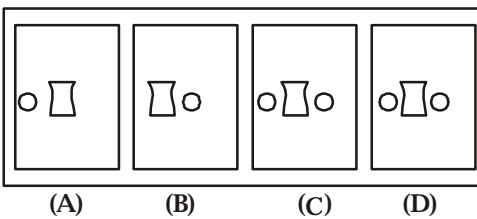


Directions: A piece of paper is folded and cut as shown in the question figures. From the given answer figures, indicate how it will appear when opened.

50. Question figures:



Answer figures:



46. I have a few fruits to be distributed. If I keep 6 in each pack, I am left with five fruits. If I keep three in each pack I am left with two. If I keep 5 in each I am left with none. What is the minimum number of fruits I have, to pack and distribute?

- (A) 30
- (B) 35
- (C) 25
- (D) 32

47. Select the letters that complete the first word and begin the second from the given alternatives.

TRA(?)IRT

- (A) IL
- (B) SH
- (C) P
- (D) IN

48. There are 50 children in a class 4% of them have no uniform. In the remaining 96%, 1/3rd children are wearing only one part of the uniform. Remaining children have full uniform. How many are wearing full uniform?

- (A) 26
- (B) 32
- (C) 34
- (D) 30

49. Five poles are standing in a row. M is on the left of N, O is on the right of P which is on the right of N. If L is on the left of M, which pole is in the centre?

- (A) L
- (B) M
- (C) N
- (D) O

50. Five books are lying in a pile E is lying on A and C is lying under B. A is lying above B and D is lying under C. Which book is lying at the bottom?

- (A) A
- (B) B
- (C) C
- (D) D

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PART B

GENERAL AWARENESS

51. In the budget for 2011-12, the fiscal deficit (% of GDP) for 2011-12 has been projected at
(A) 5.1 (B) 5.0
(C) 4.6 (D) 3.4
52. Which was described by Dr. B.R. Ambedkar as the 'heart and soul' of the Constitution?
(A) Right to Equality
(B) Right against Exploitation
(C) Right to Constitutional Remedies
(D) Right to Freedom of Religion
53. Which is *not* the concern of the local government?
(A) Public Health (B) Sanitation
(C) Law and Order
(D) Public Utility Services
54. In India, the concept of single citizenship is adopted from
(A) England (B) U.S.A.
(C) Canada (D) France
55. Who had proposed partyless democracy in India?
(A) Jaya Prakash Narayan
(B) Mahatma Gandhi
(C) Vinoda Bhawe
(D) S.A. Dange
56. Disinvestment in Public Sector is called
(A) Liberalisation (B) Globalisation
(C) Industrialisation (D) Privatization
57. Darwin finches refers to a group of
(A) Fishes (B) Lizards
(C) Birds (D) Amphibians
58. An individual's actual standard of living can be assessed by
(A) Gross National Income
(B) Net National Income
(C) Per Capita Income
(D) Disposable Personal Income
59. As announced by the Finance Minister in his Budget speech on 28th February 2011, with a view to assist State in modernising their stamp and registration administration, E-stamping is expected to be rolled out in all the districts of different States in a period of
(A) one year (B) two years
(C) three years (D) five years
60. Which Sikh Guru called himself the 'Sacheha Badshah'?
(A) Guru Gobind Singh
(B) Guru Hargovind
(C) Guru Tegh Bahadur
(D) Guru Arjan Dev
61. The Civil Disobedience Movement was launched by Mahatma Gandhi in
(A) 1928 (B) 1930
(C) 1931 (D) 1922
62. What is the maximum strength prescribed for State Legislative Assemblies?
(A) 350 (B) 600
(C) 500 (D) 750
63. Fa-hien visited India during the reign of
(A) Chandrahupta II (B) Samudragupta
(C) Ramagupta (D) Kumaragupta
64. At which place in Bengal was the East India Company given permission to trade and build a factory by the Mughals in 1651?
(A) Calcutta (B) Cassim Bazar
(C) Singpur (D) Burdwan
65. Diu is an island off
(A) Daman (B) Goa
(C) Gujarat (D) Maharashtra
66. Which from the following is a land for sea?
(A) Red Sea (B) Timor Sea
(C) North Sea (D) Arab Sea

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67. Shivasamudram Falls is found in the course river
 (A) Krishna (B) Godavari
 (C) Cauvery (D) Mahanadi
68. Who gave the slogan "Inquilab Zindabad"?
 (A) Chandrashekhar Azad
 (B) Subhash Chandra Bose
 (C) Bhagat Singh (D) Iqbal
69. The position of India Railways network the world is
 (A) second (B) third
 (C) fourth (D) fifth
70. The oldest international airline is
 (A) Dutch KLM (B) Air Canada
 (C) Qantas Airways
 (D) Air Sahara
71. Neutrons to control the chain reaction during nuclear fission?
 (A) Boron (B) Heavy water
 (C) Uranium (D) Plutonium
72. Hydrogen bomb is based on the principle of
 (A) controlled fission reaction
 (B) uncontrolled fission reaction
 (C) controlled fusion reaction
 (D) uncontrolled fusion reaction
73. Troposphere is the hottest part of the atmosphere because
 (A) it is closest to the Sun
 (B) there are charged particles in it
 (C) it is heated by the Earth's surface
 (D) heat is generated in it
74. The outermost layer of the Sun is called
 (A) Chromosphere
 (B) Photosphere
 (C) Corona
 (D) Lithosphere
75. Where was India's first computer installed?
 (A) Indian Institute of Technology, Delhi
 (B) Indian Institute of Science, Bangalore
 (C) Indian Iron & Steel Co. Ltd. Burnpur
 (D) Indian Statistical Institute, Calcutta
76. The dried flower birds are used as a sprit
 (A) Cardamom (B) Cinnamon
 (C) Cloves (D) Saffron
77. The tissue in man where to cell dives occurs after birth is
 (A) skeletal (B) nerves
 (C) connective (D) germinal
78. DNA fingerprinting is used to identify the
 (A) Parents (B) Rapist
 (C) Thieves (D) All the above
79. The normal cholesterol level in human body is
 (A) 80-120 mg% (B) 120-140mg%
 (C) 140-180mg% (D) 180-200mg%
80. Which of the following are warm-blood animals?
 (A) Whales
 (B) Whale sharks
 (C) Alytes
 (D) Draco
81. Syrinx is the voice box in
 (A) Amphibians (B) Reptiles
 (C) Birds (D) Mammals
82. The largest ecosystem of the Earth is
 (A) Biome (B) Hydrosphere
 (C) Lithosphere
93. Who invested penicillin?
 (A) Alexander Fleming
 (B) Louis Pasteur (C) Dreser
 (D) Edward Jenner
94. 2018 FIFA World Cup would be held in
 (A) Russia (B) Qatar
 (C) France (D) Netherlands
95. Who is the following was *not* the recipient of Nobel Prize in Economics 2010?
 (A) Peter A. Diamond
 (B) Christopher Pissarides
 (C) Luis Xiaobo
 (D) Dale Mortensen
96. Which troubled model was recalled recently by the Indian automobile giant Maruti

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- Suzuki for replacement of faulty fuel pump gasket?
(A) Maruti 800 (B) Maruti A-Star
(C) Wagon R (D) Baleno
97. What is the commonly used part for measuring the speed of data transmission?
(A) Mega Hertz
(B) Character per seconds
97. As a part of Human Resource Development Ministry's 'brain gain' policy to attract global talent, 14 world class universities to attract global talent are proposed to be set up in various states. Name the state from the following where no university of the aforesaid type is proposed to be located.
- (A) Punjab (B) Bihar
(C) Rajasthan (D) Uttaranchal
98. Who discovered South Pole?
(A) Robert Peary (B) Amundsen
(C) John Cabot (D) Tasman
99. Which of the following folk dances is associated with Rajasthan?
(A) Rauf (B) Jora
(C) Veedhi (D) Suisim
100. Which of the following books is authored by V.S. Naipaul?
(A) The Rediscovery of India
(B) A House of Mr. Biswas
(C) Witness the Night
(D) Tender Hookz

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PART C

NUMERICAL APTITUDE

101. If $p = 124$, $\sqrt[3]{p(p^2+3p+3)+1} = ?$
 (A) 5 (B) 7
 (C) 123 (D) 125
102. If $\sqrt{1-\frac{x^3}{100}} = \frac{3}{5}$ then x equals
 (A) 2 (B) 4
 (C) 16 (D) $(136)^{1/3}$
103. If multiplied a natural number by 18 and another by 21 and added the products. Which one of the following could be the sum?
 (A) 2007 (B) 2008
 (C) 2006 (D) 2002
104. The product of two numbers is 45 and their difference is 4. The sum squares of the two numbers is
 (A) 135 (B) 240
 (C) 73 (D) 106
105. $\sqrt{8+\sqrt{57+\sqrt{38+\sqrt{108+\sqrt{160}}}}} = ?$
 (A) 4 (B) 6
 (C) 8 (D) 10
106. The square of $14 + 6\sqrt{5}$ is
 (A) $2\sqrt{5}$ (B) $3\sqrt{5}$
 (C) $6\sqrt{3}$ (D) $3\sqrt{2}$
107. When 2^{31} is divided by 5 the remainder is
 (A) 4 (B) 3
 (C) 2 (D) 1
108. The value of $1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{2}}}}}$ is
 (A) $\frac{21}{13}$ (B) $\frac{17}{3}$
 (C) $\frac{34}{21}$ (D) $\frac{8}{5}$
109. The unit digit in the product $(122)^{123}$
 (A) 2 (B) 4
 (C) 6 (D) 8
110. The value of $\frac{2+\sqrt{3}}{2-\sqrt{3}} + \frac{2-\sqrt{3}}{2+\sqrt{3}} + \frac{\sqrt{3}+1}{\sqrt{3}-1}$ is
 (A) $16+\sqrt{3}$
 (B) $4+\sqrt{3}$
 (C) $2-\sqrt{3}$
 (D) $2+\sqrt{3}$
111. If $a + b - 2a + 3b - ab$, then the value of $(3 - 5 + 5 \div 3)$ is
 (A) 10 (B) 6
 (C) 4 (D) 2
112. Simplify $\frac{0.0347 \times 0.0347 \times 0.0347 \times (0.9653)^3}{(0.0347)^2 - (0.347)(0.09653) + (0.9653)^2}$
 (A) 0.9306 (B) 1.0009
 (C) 1.0050 (D) 1

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113. A copper wire is bent in the form of and equilateral triangle and has area $123\sqrt{3}$ cm². If the same wire is bent into the form of a circle, the area (in cm²) enclosed by the wire is (Take $\pi = \frac{22}{7}$)
- (A) 364.5 (B) 693.5
(C) 346.5 (D) 639.5
114. A child reshapes a cone make up of clay of height 24 cm and radius 6 cm into a sphere. The radius (in cm) of the sphere is
- (A) 6 (B) 12
(C) 24 (D) 48
115. Water flows into a tank which is 200 m long and 150 m wide, through a pipe of cross-section $0.3 \text{ m} \times 0.2 \text{ m}$ at 20 km/hour. Then the time (in hours) for the water level in the tank to reach 8 m is
- (A) 50 (B) 120
(C) 150 (D) 200
116. The product of two numbers is 2028 and their H.C.F. is 13. The number of such pairs is
- (A) 1 (B) 2
(C) 3 (D) 4
117. Two equal vessels are filled with the mixtures of water and milk in the ratio of 3 : 4 and 5 : 3 respectively. If the mixtures are poured into a third vessel, the ratio of water and milk in the third vessel will be
- (A) 15 : 12 (B) 53 : 59
(C) 20 : 9 (D) 59 : 53
118. I am three times as old as my son. 15 years hence, I will be twice as old as my son. The sum of our ages is
- (A) 48 years (B) 60 years
(C) 84 years (D) 72 years
119. Three bells ring simultaneously at 11 a.m. They ring at regular intervals of 20 minute 30 minutes, 40 minutes respectively. The time when all the three ring together next
- (A) 2 p.m. (B) 1 p.m.
(C) 1.15 p.m. (D) 1.30 p.m.
120. A and B together can do a work in 12 days. B and together do it in 15 days. If A efficiency is twice that of C, then the day required for B alone to finish the work is
- (A) 50 (B) 30
(C) 20 (D) 15
121. A and B can do a work in 12 days, B and C can do the same work in 15 days, C and A can do the same work in 20 days. The time taken by A, B and C to do the same work it
- (A) 5 days (B) 10 days
(C) 15 days (D) 20 days
122. A is 60% as efficient as B. C does half of the work done by A and B together. If C alone does the work in 20 days, then A, B and C together can do the work in
- (A) $5\frac{2}{3}$ days (B) $6\frac{2}{3}$ days
(C) 6 days (D) 7 days
123. The ratio of the volumes in water and glycerin in 240 cc of a mixture is 1 : 3. The quantity of water (in cc) that should be added to the mixture so that the new ratio of the volumes of water and glycerin becomes 2 : 3 is
- (A) 55 (B) 60
(C) 62.5 (D) 64
124. At present, the ratio of the ages of Maya and Chaya is 6 : 5 and fifteen years from now, the ratio will get changed to 9 : 8, Maya's present age is
- (A) 21 years (B) 24 years
(C) 30 years (D) 40 years
125. The ratio of the income to the expenditure of a family is 10 : 7. If the family expenses are Rs. 10,500, then the savings of the family is
- (A) Rs. 4,500 (B) Rs. 10,000
(C) Rs. 4,000 (D) Rs. 5,000
126. The average mathematics marks of two Sections A and B of Class IX in the annual

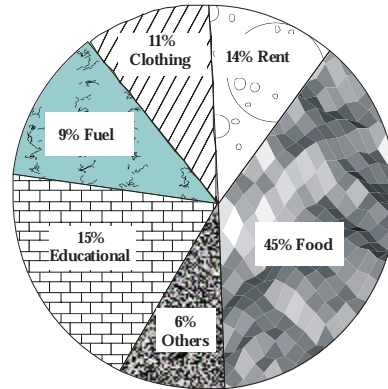
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- examination is 74. The average marks of Section A is 77.5 and that of Section B is 70. The ratio of the number of students of Sections A and B is
- (A) 7 : 8 (B) 7 : 5
(C) 8 : 7 (D) 8 : 5
127. The average weight of a group of 20 boys was calculated to be 89.4 kg and it was later discovered that one weight was misread as 78 kg instead of 87 kg. The correct average weight is
- (A) 88.95 kg (B) 89.25 kg
(C) 89.55 kg (D) 89.85 kg
128. The diameter of a wheel is 98 cm dominor of revolutions in which it will to cover a distance of 1540 m is
- (A) 500 (B) 600
(C) 700 (D) 800
129. In an equilateral triangle ABC of side to the side BC is trisected at D. Then length (in cm) of AD is
- (A) $3\sqrt{7}$ (B) $7\sqrt{3}$
(C) $\frac{10\sqrt{7}}{3}$ (D) $\frac{7\sqrt{10}}{3}$
130. The cost price of an article of Rs. 800. At allowing a discount of 10%, a gain of 12 was made. Them the market price of article is
- (A) Rs. 1,000 (B) Rs. 1,100
(C) Rs. 1,200 (D) Rs. 1,300
131. A man bought an article listed at Rs. 1500 with a discount of 20% offered on the listed price. What additional discount must offered to the man to bring the net price Rs. 1,104?
- (A) 8% (B) 10%
(C) 12% (D) 15%
132. If $\frac{a}{b} = \frac{c}{d} = \frac{e}{f} = 3$, then $\frac{2a^2+3c^2+4e^2}{2b^2+3d^2+4f^2}$
- (A) 2 (B) 3
(C) 4 (D) 9
133. The part of a room is of size 4 m × 3 m and its height is 3 m. The walls and ceiling of the room require painting. The area to be painted is
- (A) 66 m² (B) 54 m²
(C) 43 m² (D) 33 m²
134. When the price of an article was reduced by 20% its sale increased by 80%. What was the net effect on the sale?
- (A) 44% increase (B) 44% decrease
(C) 66% increase (D) 75% increase
135. The price of sugar goes up by 20%. If a housewife wants the expenses on sugar to remain the same, she should reduce the consumption by
- (A) $15\frac{1}{5}\%$ (B) $16\frac{2}{3}\%$
(C) 20% (D) 25%
136. In a factory 60% of the workers are above 30 years and of these 75% are males and the rest are females. If there are 1350 male workers above 30 years, the total number of workers is the factory is
- (A) 3000 (B) 2000
(C) 1800 (D) 1500
137. Walking as $\frac{3}{4}$ of his usual speed, a man is $4\frac{1}{2}$ hours late. His usual time to cover the same distance in hours, is
- (A) $4\frac{1}{2}$ (B) 4
(C) $5\frac{1}{2}$ (D) 5
138. The selling price of 10 oranges in the price of 13 oranges. Then the price percentage is
- (A) 30% (B) 10%
(C) 13% (D) 3%
139. The marked price of a radio is Rs. 480, shopkeeper allows a discount of 10% gains

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- 8%. If no discount is allowed, his percent would be
 (A) 18% (B) 18.5%
 (C) 20.5% (D) 20%
140. A man sold 20 apples for Rs. 100 gained 20%. How many apples did he buy Rs. 100?
 (A) 20 (B) 22
 (C) 24 (D) 25
141. A rectangular sheet of metal is 40 cm, 15 cm. Equal squares of side 4 cm are cut at the corners and the remainder is fold up to form an open rectangular box. The volume of the box is
 (A) 896 cm^3 (B) 986 cm^3
 (C) 600 cm^3 (D) 916 cm^3
142. If 78 is divided into three parts which are the ratio $1 : \frac{1}{3} : \frac{1}{6}$, the middle part is
 (A) $9\frac{1}{3}$ (B) 13
 (C) $17\frac{1}{3}$ (D) $18\frac{1}{3}$
143. The simple interest on a sum of money is $\frac{1}{9}$ of the principal and the number of years is equal to rate percent are annum. The rate per annum is
 (A) 3% (B) $\frac{1}{3}\%$
 (C) $3\frac{1}{3}\%$ (D) $\frac{3}{10}\%$
144. The difference between simple interest and compound interest of a certain sum of money at 20% per annum for 2 years is Rs. 48. Then the sum is
 (A) Rs. 1,000 (B) Rs. 1,200
 (C) Rs. 1,500 (D) Rs. 2,000
145. Shri X goes to his office by scoter at a speed of 30 km/h and reaches 6 minutes earlier. If he goes at a speed of 24 km/h, he reaches 5 minutes late. The distance to his office is
 (A) 20 km (B) 21 km
 (C) 22 km (D) 24 km
146. A sum of money becomes eight times in 3 years, if the rate is compounded annually. In low much time will the same amount at the same compound rate become sixteen times?
 (A) 6 years (B) 4 years
 (C) 8 years (D) 5 years

Directions: (Questions No. 147 to 150). The pie chart given below shows the spending of a family on various heads during a month. Study the graph and answer questions 147to 150.



147. If the total income of the family is Rs. 25,000, then the amount spent of Rent and Food together is
 (A) Rs. 17,250 (B) Rs. 14,750
 (C) Rs. 11,250 (D) Rs. 8,500
148. What is the ratio of the expenses of Education to the expenses on Food?
 (A) 1 : 3 (B) 3 : 1
 (C) 3 : 5 (D) 5 : 3
149. Expenditure of Rent is what percent of expenditure of Fuel?
 (A) 135% (B) 156%
 (C) 167% (D) 172%

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150. Which three expenditures together have a central angle of 108° ?
- (A) Fuel, Clothing and Others
(B) Fuel, Education and Others
(C) Clothing, Rent and Others
(D) Education, Rent and Others
148. The L.C.M. of two numbers is 4284 and the H.C.F. is 34. If one of the number is 20 the other number is
- (A) 714 (B) 814
(C) 914 (D) 614
149. The volumes of two cylinders are in the ratio 5 : 8 and their heights are in the ratio 2 : 8. Then the ratio of their diameters is
- (A) 3 : 8 (B) 4 : 3
(C) 3 : 4 (D) 2 : 3
150. A and B are partners in a business sharing profits in the ratio 4 : 5. They admit C into their business and they decide to share the profits in the ratio 2 : 3 : 1. To accommodate C, by what ratio to A and B have to give their share of point?
- (A) 3 : 1 (B) 2 : 1
(C) 1 : 2 (D) 1 : 3
147. A train covers 50% of the journey 30 km/h, 25% of the journey at 25 km/h at the remaining at 20 km/h. The average speed (in km/h) of the train during the journey is
- (A) $25\frac{25}{17}$ (B) $25\frac{47}{25}$
(C) $25\frac{52}{74}$ (D) $25\frac{27}{74}$

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PART D

ENGLISH COMPREHENSION

Directions: In questions no. 151 to 155, some of the sentences have errors and some are correct. Find out which part of a sentence has an error blacken the rectangle [] corresponding to the appropriate letter (A, B, C). If a sentence is free from errors, blacken the rectangle corresponding to (D) in the Answer Sheet.

151. A senior doctor expressed concern about physicians recommended the vaccine. No error.
 (A) (B) (C) (D)
152. We have discussing all the known mechanisms of physical growth. No error.
 (A) (B) (C) (D)
153. Children enjoy listening to ghost stories especially on Halloween night. No error.
 (A) (B) (C) (D)
154. I have many works to do. No error.
 (A) (B) (C) (D)
155. There are so many filths all around the place. No error.
 (A) (B) (C) (D)

Directions: In questions no. 156 to 160, sentences are given with blanks to be filled in with an appropriate word. Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it by blackening the appropriate rectangle [] in the Answer Sheet.

156. The building is not safe and must be _____ down.
 (A) pull (B) pulling
 (C) pulled (D) pulls
157. There is something wonderful _____ him.
 (A) of (B) about
 (C) for (D) inside
158. The song is the play cannot be deleted as it is _____ to the story.
 (A) intervened (B) innate
 (C) exacting (D) integral
159. She remained a _____ all her life.
 (A) spinster (B) bachelor
 (C) unmarried (D) single

160. Do not stay in the grasslands after dark, as some animals become _____ when they see humans.
 (A) provoked (B) alerted
 (C) aggressive (D) threatened

Directions: In questions no. 161 to 165, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

161. LUCIDITY
 (A) Fluidity (B) Politeness
 (C) Clarity (D) Fluency
162. INDICT
 (A) Implicate (B) Elude
 (C) Charge (D) Manifest
163. APPRAISE
 (A) Accuse (B) Praise
 (C) Appreciate (D) Judge
164. DELUGE
 (A) Confusion (B) Deception
 (C) Flood (D) Weapon

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165. PREPONDERANCE

- (A) Pre-eminence (B) Dominance
(C) Domineering (D) Preoccupation

Directions: In question no. 166 to 170, out of the four alternatives, choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

166. INVINCIBLE

- (A) Small (B) Invisible
(C) Vulnerable (D) Reachable

167. INOFFENSIVE

- (A) Sensitive (B) Organic
(C) Sensible (D) Rude

168. DIVULGE

- (A) Conceal (B) Disguise
(C) Oppress (D) Reveal

169. DISCORD

- (A) Harmony (B) Serenity
(C) Acceptance (D) Placidity

170. MAMMOTII

- (A) Quiet (B) Significant
(C) Huge (D) Small

Directions: In questions no. 171 to 175, four alternatives are given for the meaning of the given Idiom/phrase. Choose the alternative which best expresses the meaning of the Indian/Phrase and mark in the Answer Sheet.

171. To take the heart

- (A) to be encouraged (B) to grieve over
(C) to like (D) to hate

172. Yeoman's service

- (A) medical help (B) excellent work
(C) social work (D) hard work

173. To face the music

- (A) to enjoy a musical recital
(B) to bear the consequences
(C) to live in a pleasant atmosphere
(D) to have a difficult time

174. To put up with

- (A) to accommodate (B) to adjust

- (C) to understand (D) to tolerate

175. To call it a day

- (A) to conclude proceedings
(B) to initiate proceedings
(C) to work through the day
(D) None of the above

Directions: In questions no. 176 to 180, a sentence or underlined part thereof is given which may need improvement. Alternatives are given at (A), (B) and (C) below, which may be a better option. In case no improvement is needed, your [] in the Answer Sheet.

176. The man whom I thought was thoroughly honest proved to be a swindler.

- (A) The man whom I thought was thoroughly honest proved a swindler.
(B) The man who I through was thoroughly honest proved to be a swindler.
(C) The man to whom I thought was thoroughly honest proved to be a swindler.
(D) No improvement

177. No sooner had the dividend been declared, the notices were sent out.

- (A) The company had hardly declared the dividend till the notices were sent for mailing.
(B) They had no sooner declared the dividend then the notices were sent out.
(C) Hardly had the dividend been declared than the notices were sent-out.
(D) No improvement.

178. Riding upon his horse, the tiger jumped at him.

- (A) Riding upon the tiger, this horse jumped at him.
(B) The tiger jumped at him while he was riding upon his horse.
(C) The tiger rode at him while he was jumping upon his horse.
(D) No improvement

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179. I in black and white must have been your terms down.
 (A) I must have in black and white your terms down.
 (B) I must have your terms in black and white down.
 (C) I must have your terms down in black and white.
 (D) No improvement
180. When we came out of the restaurant it half past eleven.
 (A) When we had come out of the restaurant.
 (B) After we came out of the restaurant.
 (C) When we have come out of restaurant.
 (D) No improvement.
186. (A) mandatory (B) circulatory
 (C) temporary (D) regulatory
187. (A) convinience (B) initative
 (C) concesional (D) exaggerate
188. (A) diologue (B) giraffe
 (C) scissors (D) humourous
189. (A) asidvous (B) nefarious
 (C) macaber (D) loquacious
190. (A) cortege (B) damege
 (C) milege (D) plumege

Directions: In questions no. 181 to 185, out of four alternatives, choose the one which can substituted, for the given words/sentence an indicate it by blackening the appropriate rectangle [] in the Answer Sheet.

181. Code of diplomatic etiquette and precedence
 (A) Statesmanship (B) Diplomacy
 (C) Hierarchy (D) Protocol
182. To renounce a high position of authority control
 (A) Abduct (B) Abandon
 (C) Abort (D) Abdicate
183. Not to be moved by entreaty
 (A) Rigorous (B) Negligent
 (C) Inexorable (D) Despotic
184. An object or portion serving as a sample
 (A) Specification (B) Spectre
 (C) Spectacle (D) Specimen
185. The practice of submitting a proposal a popular vote
 (A) Election (B) Reference
 (C) Popularity (D) Referendum

Directions: In question no. 186 to 190, groups of four words are given. In each group, one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.

Directions: In the following passage (question no. 191 to 200), some of the words have been left out. First read the passage over and try to understand what is about. Then fill in the blanks with the help of the alternatives given Mark your answer in the Answer Sheet.

PASSAGE (Q. NOS. 191-200)

Science means knowledge, but not all knowledge is science. I know from my own eyesight that our dog Chippy like papaya: I know from a book that Akbar was the 191 of Babar, and 192 in 1605; and I know 193 the radio that India did not do well in the 194 Test matches. We can call these 195 of knowledge 196, but they are not science.

Science 197 with facts, but not with facts which have 198 to do with each other, like the facts about our dog, cricket and the Mughul ruler; those facts are not related 199, and so have nothing 200 with science. Science starts with observation.

191. (A) grandson (B) Grand rather
 (C) grand nephew (D) son
192. (A) gone (B) died
 (C) disappeared (d) absented
193. (A) on (B) in
 (C) since (D) from

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194. (A) old (B) ordinary (C) passes (D) drives
(C) latest (D) outdated 198. (A) no (B) neither
195. (A) pieces (B) peace (C) nor (D) nothing
(C) whole (D) block 199. (A) by that way (B) in any way
196. (A) lies (B) charges (C) from the side (D) in addition to
(C) facts (D) blame 200. (A) to lie (B) to speak
197. (A) starts (B) stops (C) to sleep (D) to do

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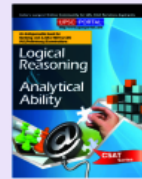
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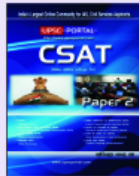
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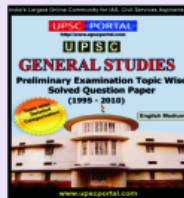
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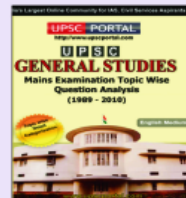


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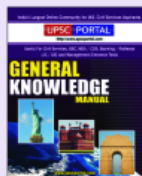


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