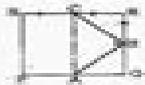




గణితం - ఎంపికలు

120. Of the three numbers, the first is 3 times the second and the third is 5 times the first. If the average of the three numbers is 57, the difference between the largest and the smallest number is
 a) 9 b) 18 c) 126 d) 135
121. A rhombus of side 10 cm has two angles of 60° each. Then, the length of diagonals are
 a) $10\sqrt{3}$, 10 cm b) $10\sqrt{2}$, 10 cm
 c) 5, 10 cm d) None of these
122. In the given figure, PQRS is a square and $\angle ABC = 90^\circ$. If AQ = BR = SC, then consider the following statements:



- I. OB = RC
 II. AB = BC
 III. $\angle BAC = 45^\circ$
 IV. AC = PB

- a) Only I and IV are correct
 b) I, II and III are correct
 c) II, III and IV are correct d) All are correct
123. The product of two numbers is 225 and their HCF is 15. The number of such pairs is
 a) 1 b) 2 c) 3 d) 4
124. The three vertices of $\triangle ABC$ are A (7, -4), B (-2, 3) and C (3, 2). The area is:
 a) 5 sq units b) 6 sq units
 c) 7 sq units d) 15 sq units
125. If $a^2 + b = (a + b) + 5$, then $3a + 7$ equals to
 a) 12 b) 25 c) 42 d) 50
122. Which of the following statements is incorrect?
 a) A circle is symmetrical about the diameter
 b) Two circles are divided symmetrically by the line passing through their centres.
 c) More than one circle can be drawn through three non-collinear points.
 d) Two circles cannot cut each other in more than two points without coinciding entirely.
123. If $\sin B = \frac{3}{4}$, then $3 - \cos B = -4 \cos^2 B =$

a) 1 b) $\frac{3}{4}$ c) -2 d) $2\frac{1}{2}$

124. If $\sec \alpha = \frac{5}{4}$, then $\frac{\tan \alpha}{1 + \tan^2 \alpha} =$
 a) $\frac{2}{25}$ b) $\frac{12}{25}$ c) $\frac{3}{4}$ d) $\frac{1}{25}$
125. If $x = 2 + \sqrt{3}$, find the value of $x^2 + \frac{1}{x^2}$
 a) 52 b) 54 c) 56 d) 58
126. If $\tan A = 1$ and $\tan B = \sqrt{3}$, then $\cos A + \cos B \sin A$, $\sin B$ is equal to
 a) $\frac{1 + \sqrt{3}}{2\sqrt{2}}$ b) $\frac{1 - \sqrt{3}}{2\sqrt{2}}$ c) $\frac{2 + \sqrt{3}}{3}$ d) 1
127. If $a = 0.25$, $b = -0.25$, $c = 0.5$, then the value of $\frac{a^2 + b^2 - c^2 - 2bc}{a^2 + b^2 - 2ab - c^2}$ is
 a) $\frac{7}{8}$ b) $\frac{14}{17}$ c) 1 d) $\frac{15}{16}$



128. If AB is the chord of the circle with centre O, SA and SB are the tangents at A and B respectively then which of the following is correct?
 a) $\angle A = \angle B$
 b) $\angle SAO = \angle SBO = x$
 c) $\angle SAO = y$ and $\angle SBO = x$ d) $\angle A = y$
129. A vertical tower stands on a horizontal plane and is surmounted by a vertical flag staff of height h. At a point on the plane, the angle of elevation of the bottom of the flag staff is α and that of the top of the flag staff is β . Then, the height of the tower is
 a) $\frac{h \sin \alpha}{\sin \beta - \sin \alpha}$ b) $\frac{h \sin \alpha}{\sin \beta + \sin \alpha}$
 c) $\frac{h \sin \alpha}{\sin \beta - \cos \alpha}$ d) None of these

129. A man on the top of a tower, standing on the sea-shore, finds that a boat coming towards

- him takes 10 minutes for the angle of depression to change from 30° and 60°. How soon will the boat reach the sea-shore?
 a) 5 minutes b) 50 minutes
 c) $\sqrt{3}$ minutes d) None of these

General Awareness

125. Where is the satellite launching centre of India located?
 a) Ahmedabad b) Hassan
 c) Sriharikota d) Thumba
122. Which of the following is not correctly matched with regard to Project Tiger Reserves?
 a) Sariska - Alwar b) Valmiki - Haldwathi
 c) Pench - Ghatwar d) Nagarjunasagar - Srisailem
123. The Harappan Civilisation was discovered in the year
 a) 1922 b) 1942 c) 1901 d) 1922
124. Muhammad bin-Tughlaq was proficient in
 a) Art b) Music c) Cartography d) Philosophy
125. The speed of light with the rise in the temperature of the medium
 a) Increases b) Decreases
 c) Remains unaltered d) Drops suddenly
126. Clothes keep us warm in winter because they
 a) supply heat b) do not radiate heat
 c) prevent air from contacting the body d) prevent the heat of the body from escaping
127. In a refrigerator what produces the cooling?
 a) The ice which deposits on the freezer
 b) The sudden expansion of a compressed gas
 c) The evaporation of a volatile liquid
 d) None of these
128. Why are we able to hear short wave broadcasts better than long wave broadcasts?
 a) Short waves are more energetic than long waves.
 b) Short waves are unaffected by atmospheric disturbances.
 c) Short wave broadcasts are made by nearby radio stations.
 d) By convention, short waves are meant for long distances, whereas long waves are reserved for short distances.

128. Quartz is made of
 a) Calcium Sulphate b) Calcium Silicate
 c) Sodium Sulphate d) Sodium Silicate
129. What was the basis for constituting the Constituent Assembly of India?
 a) The Resolution of the Indian National Congress
 b) The Cabinet Mission Plan, 1946
 c) The Indian Independence Act, 1947
 d) The resolutions of the Provincial State Legislatures of the Dominion of India
125. Trade winds blow from the
 a) equatorial low pressure
 b) polar high pressure
 c) subtropical high pressure
 d) subtropical low pressure

122. In which State is Jawahar Tunnel located?
 a) Himachal Pradesh b) Jammu & Kashmir
 c) Uttaranchal d) Goa
123. The type of note issue system followed in India is
 a) Maximum fiduciary system
 b) Minimum reserve system
 c) Proportional fiduciary system
 d) Fixed fiduciary system

124. The credit of discovering the sea route of India goes to the
 a) French b) Dutch c) Portuguese d) English
125. The song 'Jana-Gana-Mana' composed by Rabindra Nath Tagore was first published in January 1912 under the title of
 a) Jai He b) Rashmi Jagati
 c) Bharat Vidhata d) Matibhoomi
126. Which has been the field of activity of Pt. Shriamangal Joshi?
 a) Literature b) Classical music (Vocal)
 c) Education d) Journalism

127. Who has instituted the 'Moorti-Devi Sahitya Puraskar'?
 a) Ministry of HRD, Central Government
 b) Sahitya Academy
 c) Bharatiya Janaparth Trust
 d) Bharatiya Vidya Shekha

126. Where did the dance 'Nata Mohini Attam' develop?
 a) Manipal b) Kerala
 c) Karnataka d) Tamilnadu
125. Who was the first woman to become the Prime Minister of a country?
 a) Golda Meir b) Margaret Thatcher
 c) Indira Gandhi d) Sirimavo Bandaranaike

129. Who among the following first propounded the idea of Basic Education?
 a) Jawahar Lal Nehru b) Raja Ram Mohan Roy
 c) Mahatma Gandhi d) Dayanand Saraswati
127. Which one of the following is an abnormal constituent of urine?
 a) Creatinine b) Urea
 c) Uric acid d) Ketone bodies

122. Which one of the following cells produces antibodies?
 a) Eosinophils b) Monocytes
 c) Basophils d) Lymphocytes
123. The Vitamin which helps in clotting of blood is:
 a) A b) D c) B d) K
124. At very high altitude, the Red Blood Corpuscles in the human body will:
 a) increase in size b) decrease in size
 c) increase in number d) decrease in number

125. Processing of a data file to reduce its size for storage on disk is termed:
 a) Amplification b) Reduction
 c) Compression d) Expansion
126. On imprisonment in 1898 by the British, Bal Gangadhar Tilak was sent to
 a) Andaman and Nicobar b) Rangoon
 c) Singapore d) Mandalay

127. Which two countries are connected by an under-sea tunnel?
 a) England and Spain
 b) Malaysia and Singapore
 c) England and Belgium
 d) France and England
128. Which of the following is not associated with the UN Organization?
 a) ILO b) WHO c) FAO d) ASEAN

129. When did India join the United Nations?
 a) 1945 b) 1947 c) 1950 d) 1954
126. A test tube baby means:
 a) a baby grown in a test tube.
 b) embryo fertilised in uterus and developed in test tube.
 c) embryo fertilised and developed in uterus.
 d) fertilisation in vitro and then transplantation in the uterus.
125. Find out the mismatched pair:
 a) Tea - Assam b) Groundnut - Bihar
 c) Coconut - Kerala d) Sugarcane - Uttar Pradesh

122. Arrange the following in chronological order:
 I. Grand March II. Simon Commission
 III. Poona Pact IV. Gandhi Irwin Pact
 a) I, II, III, IV b) I, II, IV, III
 c) IV, III, I, II d) IV, III, II, I
123. The deepest branch of the world 'The Mariana Trench' is located in the:
 a) Indian Ocean b) Atlantic Ocean
 c) Arctic Ocean d) Pacific Ocean

124. Green glands are associated with
 a) Reproduction b) Excretion
 c) Respiration d) Digestion
125. Which one of the following often has the maximum number of registered vehicles on the road?
 a) Mumbai b) Kolkata c) Delhi d) Chennai
126. Match the game and the States in which they are situated:

Game	State
A. Hirkud	1. Chhattisgarh
B. Matar	2. Orissa
C. Mahamad	3. Karnataka
D. Amatti	4. Tamilnadu

- a) 3 2 4 1 b) 2 4 1 3
 c) 1 3 2 4 d) 4 1 3 2
127. Who is competent to dissolve the Rajya Sabha?

- a) The President
 b) The Chairman, Rajya Sabha
 c) The Lok Sabha d) None

128. When did India win a gold medal in hockey at the Olympics last time?
 a) 2000 Sydney b) 1948 Atlanta
 c) 1980 Moscow d) 1972 Munich

128. Of the following words in the Preamble of the Constitution of India, which was not inserted through the Constitution (Forty Second Amendment) Act, 1970?
 a) Socialist b) Secular
 c) Dignity d) Integrity

126. Which among the following is a martial dance?
 a) Kathakali b) Bhamo dance of Meghalaya
 c) Chhau of Mayurbhanj d) Singraus of Punjab
129. A piece of paper and a cricket ball are dropped from the same height. Under which of the following conditions do both reach the surface simultaneously?
 a) They must have the same volume
 b) They must have the same density
 c) They must have the same mass
 d) They must be dropped in vacuum

122. Which from the following is not true when the interest rate in the economy goes up?
 a) Savings increases b) Lending decreases
 c) Cost of production increases
 d) Return on capital increases
123. The stability of a pond-ecosystem depends on
 a) micro-organisms and fishes
 b) micro-organisms and zoo planktons
 c) fishes and reptiles
 d) producers and consumers

124. The Bihar Steel Plant has been established with the assistance of
 a) U.K. b) U.S.A. c) Russia d) Germany
125. Which from the following territories does not have a border with Anushah Pradesh?
 a) Assam b) Nagaland c) Bihar d) Manipal

124. Choclates can be bad for health because of a high content of
 a) Zinc b) Nickel c) Lead d) Cobalt
127. What is the maximum permitted length of cricket bat?
 a) 30" b) 34" c) 36" d) 38"

126. Which from the following rivers does not originate in Indian territory?
 a) Mandakini b) Brahmaputra
 c) Ravi d) Chenab
129. Arrange the following events in the chronological order:
 (A) Birth of Prophet Muhammad
 (B) Rise of Gupta dynasty in India
 (C) Completion of the Roman Colosseum
 (D) Peter the Great becomes the Czar of Russia

- a) (C), (B), (A), (D) b) (A), (C), (D), (B)
 c) (B), (D), (C), (A) d) (D), (A), (C), (B)
126. Indian desert is called
 a) Gobi b) Sahara
 c) Thar d) Atacama

Key					
126-c	129-b	122-b	125-c	128-c	128-c
127-a	120-b	123-b	126-b	124-d	129-c
128-d	121-c	124-c	127-d	122-d	125-d
129-b	122-c	125-c	128-b	126-a	127-d
120-a	123-d	126-a	129-a	124-b	128-b
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Key					
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124-b	127-a	120-c	128-c	126-d	129-b
125-a	128-b	122-b	127-d	124-c	125-a
128-a	129-c	126-c	124-b	123-c	128-a
127-d	120-a	125-d	128-c	126-d	129-b
129-d	121-b	124-d	123-a	128-d	129-a

Higher Secondary Model Question Paper 2013

Richard Bailey



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