Subject Code : 104 ▼

Subject Code	Exam Date	Q Id	Questions	Answer Key
104	26-10-2019	301	The novel "Coolie" is a famous work of (A) Shri Khushwant Singh (B) Shri V.S. Naipaul (C) Shri Mulk Raj Anand (D) Shri R.K. Narayan	(C)
104	26-10-2019	302	India's first National Police Museum, set up by the Intelligence Bureau in coordination with the Central Armed Police Forces under the Union Home Ministry, is located at (A) Delhi (B) Noida (C) Hyderabad (D) Ahmedabad	(A)
104	26-10-2019	303	Who said "The soul of India lives in its villages"? (A) Shri Vinoba Bhave (B) Shri Jayaprakash Narayan (C) Shri Mahatma Gandhi (D) Shri Jawahar Lal Nehru	(C)
104	26-10-2019	304	International Poverty Eradication Day is celebrated across the globe every year on ……………... to raise awareness and highlight the problems faced by the poverty-stricken people or families and work towards eradicating poverty globally in all its forms. (A) 7 September (B) 17 September (C) 7 October (D) 17 October	(D)

104	26-10-2019	305	The National Highway starting from Kapurthala connecting Gobindwal Sahib and terminating near Taran Taran in the State of Punjab has been declared as new National Highway No. 703AA, and is announced to be named after………. effective November 2019. (A) Shri Sardar Vallabhbhai Patel (B) Shri Guru Nanak Dev (C) Shri Giani Zail Singh (D) Shri Shankar Dayal Sharma	(B)
104	26-10-2019	306	Synonym for **"Intransigent"** (A) flexible (B) unshakeable (C) pliable (D) supple	(B)
104	26-10-2019	307	Fill up with the correct option: **Ajit is a .... scholar than his brother.** (A) better (B) smaller (C) superior (D) good	(A)
104	26-10-2019	308	Find out whether there is any Grammatical error in below sentence. If yes, that part of the sentence shall be indicated as the answer among the given options: **Gulliver's Travels / are the most fascinating story/ that I have ever read.** (A) Gulliver's Travels (B) are the most fascinating story (C) that I have ever read (D) No error	(B)

104	26-10-2019	309	Out of the four alternatives, choose the one which can be substituted for the given words. **Misappropriation of money** (A) Abridgement (B) Condiment (C) Embezzlement (D) Bereavement	(C)
104	26-10-2019	310	In the following question, the first and the last part of the sentence/passage are given. The rest of the sentence/ passage is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the sentences and find out which of the four combinations is correct. **"As a matter of fact", said the boy modestly, "I'm a spaceman."** P. "You can't see it from here." Q. 'From another planet.' R. 'I'm a spaceman', he said again. S. John and George stared at the boy. **John gasped, George gave a shout of laughter.** (A) PSRQ (B) QPSR (C) RQPS (D) SRQP	(D)
104	26-10-2019	311	Rani and Kavitha are working on a project. Rani takes 6 hours to type 32 pages on a computer, while Kavitha takes 5 hours to type 40 pages. How much time will they take, working together on two different computers to type the project report of 110 pages? (A) 7 hours 50 minutes (B) 10 hours (C) 8 hours 15 minutes (D) 6 hours 40 minutes	(C)
104	26-10-2019	312	The thief Bhagu Ram is spotted by the policeman Pakad Singh from a Distance of 200m. Once they see each other they start running. What is the	(A)

Distance Bhagu Ram who is running at 5 kmph would have covered before being caught by Pakad Singh running at 7 kmph?

(A) 0.5 km

(B) 1.5 km

(C) 2.5 km

(D) 2 km

104	26-10-2019	313	A shopkeeper sells two shirts at the same price; one at a discount of 20% and another at a gain of 20%.Find the overall loss or the gain he earned. (A) 2% (B) 1% (C) 4% (D) None of the options	(C)
104	26-10-2019	314	The average age of 5 sisters is 15 years. The youngest sister is 6 years old. When she was born, the average age of the remaining sisters was N years. What is the average age of the sisters excluding the youngest sister? (A) 17.25 years (B) 15 years (C) 16.5 years (D) 20 years	(A)
104	26-10-2019	315	At a CBSE school, 18% of all students play football and basketball and 32% of all students play football. What is the probability that a student plays basketball given that the student plays football? (A) 56% (B) 50% (C) 45% (D) None of the options	(A)
104	26-10-2019	316	Below are given six three-digit numbers. The digits comprise of numerics and letters. The letter	(D)

indicates its serial order in the English alphabet. What will be the middle digit of the 4th number when the numbers are arranged in the descending order after interchanging numeric in each number without altering the place of letter in the number?

19F, 2H9, 98B, D76, 7A6, 61E

(A) 6

(B) 7

(C) 8

(D) None of the options

104	26-10-2019	317	Showing a photo of a man, Pinki says," His mother's only daughter is my mother". How is Pinki related to the man in the photo? (A) daughter (B) niece (C) sister (D) aunt	(B)
104	26-10-2019	318	Select the odd one out:- (A) Bokaro (B) Jamshedpur (C) Bhilai (D) Agra	(D)
104	26-10-2019	319	In this series, you will be looking at both the letter pattern and the number pattern. Fill the blanks at the end of series. **QAR, RAS, SAT, TAU, _____** (A) UAT (B) UAV (C) TAS (D) TAT	(B)
104	26-10-2019	320	Riya traveled from point A to a distance of 10 feet east at point B. She then turned right and	(A)

			walked 3 feet. Again she turned right and walked 14 feet. How far is she from the starting point. (A) 4 feet (B) 5 feet (C) 24 feet (D) 25 feet	
104	26-10-2019	321	As per IMO, ECA stands for (A) Emission Complaint Area (B) Emission Control Area (C) Environment Compliant Area (D) Economical Control Area	(B)
104	26-10-2019	322	Which of these are not part of deadweight of a ship? (A) Ballast (B) Fuel Oil (C) Fresh Water (D) Provisions	(A)
104	26-10-2019	323	As per IRS Rules and Regulations for the Construction and Classification of Steel Ships – 2019, the formula for the calculation of ideal elastic buckling stress for axially loaded member is ; $\sigma E = 0.001\ C\ E\ (i\ /\ lm)^2$ Where, E = modulus of elasticity [N/mm^2] σE = ideal elastic buckling stress [N/mm^2] i = radius of gyration of the member, [cm] lm = m = length of the member, [m] The value of C in the equation for both ends fixed is ; (A) 2 (B) 4 (C) 1 (D) None of the options	(B)

104	26-10-2019	324	The fully loaded displacement of a vessel is 125 tons in fresh water. The weight of a geometrically similar wax model with linear scale ratio 10 is 92 kg. The additional weight to be placed in the model to satisfy the condition of geometric similarity for model testing is (assume fresh water in towing tank); (A) 125 kg (B) 33 kg (C) 24.5 kg (D) 52 kg	(B)
104	26-10-2019	325	The condition at which the encounter frequency is greater than the wave frequency is: (A) Beam seas (B) Head Seas (C) Following seas (D) Possible in all mentioned sea conditions	(B)
104	26-10-2019	326	Reynolds number signifies the ratio of (A) gravity forces to viscous forces (B) inertial forces to viscous forces (C) inertial forces to gravity forces (D) buoyant forces to inertial forces	(B)
104	26-10-2019	327	Difference between classification society GRADE A,B,D & E STEELS is in (A) yield strength (B) tensile strength (C) impact strength (D) None of the options	(C)
104	26-10-2019	328	If the radius of wire stretched by a tensile load is doubled, then its Young's modulus of the wire will be (A) two times	(D)

(B) one half

(C) four times

(D) remain unaffected

104	26-10-2019	329	Which of the following statements about The Baltic Dry Index is correct? (A) BDI is reported annually. (B) BDI is reported monthly. (C) BDI is reported weekly. (D) BDI is reported daily.	(D)
104	26-10-2019	330	Height of hatch coamings in position 1 as per ICLL (A) 600 (B) 760 (C) 900 (D) 500	(A)
104	26-10-2019	331	The floating condition of a vessel during Lightship Survey is as below:- Draft Aft=0.6m Draft Fwd=0.4m Trim=0.6 - 0.4 = 0.2 m =20 cm From the even keel hydrostatic data corresponding to the true mean draft is as given below:- MCT1C = 5 t-m/cm (moment to change trim by 1 cm) Displacement = 100 ton Which of the following statement is true regarding the longitudinal centre of gravity and longitudinal centre of buoyancy when measured along an axis parallel to the keel of the vessel ? (A) The Centre of Gravity of the vessel is located 1 m forward of the centre of buoyancy (B) The Centre of Gravity of the vessel is located 1 m aft of the centre of buoyancy (C) The Centre of Gravity of the vessel is located 0.5 m forward of the centre of buoyancy (D) The Centre of Gravity of the vessel is located 0.5 m aft of the centre of buoyancy	(B)

104	26-10-2019	332	Class societies allow for a _____% weight reduction for the High Holding Power anchors compared to conventional ones because of their higher holding capacity. (A) 25 (B) 50 (C) 75 (D) 40	(A)
104	26-10-2019	333	The slope of shear force diagram at any section of the beam gives (A) Beam curvature at that section (B) Bending moment at that section (C) Rate of loading at that section (D) None of the options	(C)
104	26-10-2019	334	Intermittent welding is used to (A) increase strength of weld joints (B) reduce heat input due to welding (C) weld stiffeners in strength bulkheads (D) None of the options	(B)
104	26-10-2019	335	The continuity equation is based on the principle of (A) conservation of mass (B) conservation of momentum (C) conservation of energy (D) conservation of force	(A)
104	26-10-2019	336	During docking of ships, metacentric height ------------during initial contact of ship on keel blocks (A) Remains same (B) Reduces (C) Increases	(B)

			(D) None of the options	
104	26-10-2019	337	As per MARPOL Annex 1, Reg.12A, Vessels having Fuel Oil Capacity greater than__ shall have double hull arrangement. (A) 500 m^3 (B) 300 m^3 (C) 600 m^3 (D) 1000 m^3	(C)
104	26-10-2019	338	Outfitting of the Hull Blocks during construction is a concept under (A) IHAT (B) IHOP (C) IOSB (D) IOPP	(B)
104	26-10-2019	339	Advantage of providing a bulbous bow (A) Reduces & eliminates bow wave (B) Acts as a robust bumper (C) Provides for larger reserve of floatation (D) All of the options	(D)
104	26-10-2019	340	As per LSA Code (4.4.2), a lifeboat can be approved to accommodate maximum _____ persons (A) 75 (B) 25 (C) 150 (D) 250	(C)
104	26-10-2019	341	Excess angle of heading reached by ship from its previous direction (after rudder is applied) in a zig zag manoeuvring trial is called	(B)

(A) Maximum Transfer

(B) Overshoot

(C) Initial turning angle

(D) Tactical distance

104	26-10-2019	342	The thrust deduction fraction and the wake fraction determined during the self propulsion test are 0.2 and 0.4 respectively. The hull efficiency is (A) 133 % (B) 75 % (C) 99 % (D) 115%	(A)
104	26-10-2019	343	A vessel loads to her summer loadline at an up river port where the relative density of the water is 1.002. She then proceeds down river to a port at the river mouth where the water has relative density of 1.017, consuming 25 tonnes of fuel and water on passage. On loading a further 100 tonnes of cargo, it is noted that she is again at her summer loadline. What is her summer displacement in salt water in tonnes? (A) 5125 (B) 5100 (C) 5050 (D) 5000	(A)
104	26-10-2019	344	The unit of EEDI (Energy Efficiency Design Index) for cargo ships is (nm stands for nautical mile): (A) g GHG emissions/ nm (B) g CO_2/tonne (C) g CO_2/(tonne * nm) (D) Tonne CO_2/voyage	(C)
104	26-10-2019	345	The welding method preferred for the vertical welding of side shell plates 15 mm is	(D)

(A) TIG

(B) SAW

(C) MIG

(D) Electro gas welding

104	26-10-2019	346	Dry Film Thicknesss (DFT) of paint is usually measured in (A) millimeter (B) nanometer (C) micrometer (D) centimeter	(C)
104	26-10-2019	347	In a two dimensional flow, the component of the velocity along the X-axis and the Y-axis are u = bx + by and v = ax – by. For what condition will the flow field be continuous? (A) impossible (B) possible if a = b (C) possible if a = 2b (D) possible for all values of a and b	(D)
104	26-10-2019	348	As per IMO Intact stability criteria applicable to passenger vessels, the maximum righting lever shall occur at an angle not less than; (A) 15 deg (B) 20 deg (C) 25 deg (D) 30 deg	(C)
104	26-10-2019	349	What is the minimum vertical damage extent to be considered, as per SOLAS(B- Beam of Vessel)? (A) B/5 (B) B/2 (C) B/10	(A)

			(D) B/6	
104	26-10-2019	350	A ship is directionally stable when (A) It can resume a straight line in any direction after a disturbance (B) It can resume a straight line in the original direction after disturbance (C) It cannot resume a straight line in any direction (D) None of the options	(B)
104	26-10-2019	351	To determine what navigation lights and day-shapes that must be displayed on a passenger vessel, you should check the _____ (A) MARPOL (B) COLREG (C) SOLAS (D) None of the options	(B)
104	26-10-2019	352	Which of the following parameter is not used for Net Tonnage calculation as per Tonnage Convention 1969? (A) Cargo Volume (B) No. of Passengers/Crew (C) Beam (D) Draught	(C)
104	26-10-2019	353	Which of the following is true for stable equilibrium for a submarine ? (A) For a submarine on the surface, the metacentre should be above the centre of gravity whereas for a fully submerged submarine, centre of buoyancy should be above the centre of gravity. (B) For a submarine on the surface, the metacentre should be above the centre of gravity whereas for a fully submerged submarine, centre of buoyancy should be below the centre of gravity.	(A)

			(C) For a submarine on the surface, the metacentre should be below the centre of gravity whereas for a fully submerged submarine, centre of buoyancy should be above the centre of gravity. (D) For a submarine on the surface, the metacentre should be below the centre of gravity whereas for a fully submerged submarine, centre of buoyancy should be below the centre of gravity.	
104	26-10-2019	354	Equipment Number calculation does not depend on (A) Displacement (B) Profile Area (C) Beam (D) Propulsion Power	(D)
104	26-10-2019	355	Rescue boats shall be not less than _____ m and not more than _____ m in length (A) 4, 10 (B) 3.5, 12 (C) 3.8, 8.5 (D) 5, 12.5	(C)
104	26-10-2019	356	Consider the following statements regarding full scale ship and its geometrically similar model satisfying the Froude's Law:- I. The residuary resistance of the full scale ship and model are the same. II. The residuary resistance coefficient of the full scale ship and model are the same. III. The frictional resistance of the full scale ship and model are the same. IV. The frictional resistance coefficient of the full scale ship and model are the same. (A) Only Statement I is true (B) Only Statement II is true (C) I and IV are true (D) II and III are true	(B)

104	26-10-2019	357	The critical speed in shallow water of depth 10 m for a vessel with Length of 360 m is (assume $g = 10$ m/s^2) ; (A) 10 m/s (B) 20 m/s (C) 40 m/s (D) 60 m/s	(A)
104	26-10-2019	358	Which among the following is the requirement for Antifouling paints? (A) Epoxy Free (B) Tin Free (C) Polymer Free (D) Lead Free	(B)
104	26-10-2019	359	Anchor and chain specifications of a ship is based on (A) Admirality coefficient (B) Equipment number calculation (C) Drag coefficient (D) Reynold's number	(B)
104	26-10-2019	360	As per MARPOL, the oily effluent that can be discharged overboard cannot exceed (A) 5 PPM (B) 7 PPM (C) 12 PPM (D) 15 PPM	(D)