Subject Code : 101 v

| Subject Code | Exam Date | $\begin{aligned} & \mathbf{Q} \\ & \text { Id } \end{aligned}$ | Questions | Answer Key |
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| 101 | 26-10-2019 | 1 | During the Quit India Movement, "Parallel Government" was constituted at <br> (A) Varanasi <br> (B) Allahabad <br> (C) Lucknow <br> (D) Ballia | (D) |
| 101 | 26-10-2019 | 2 | When was the railway system established in India? <br> (A) 1930 <br> (B) 1753 <br> (C) 1853 <br> (D) 1950 | (C) |
| 101 | 26-10-2019 | 3 | Where is "Statue of Unity" located? <br> (A) India <br> (B) China <br> (C) Bulgaria <br> (D) Thailand | (A) |
| 101 | 26-10-2019 | 4 | Which of the following is true about Ayushman Bharat National Health Protection Scheme launched in 2018 ? <br> (A) The scheme will have a defined benefit cover of Rs. 5 lakh per family per year <br> (B) A beneficiary covered under the scheme will be allowed to take cashless benefits from any public/private empanelled hospitals across the country <br> (C) States/ UTs can decide to implement the scheme through an insurance company or directly through the Trust/ Society or use an integrated model | (D) |


| 10/29/2019 |  | 2.19 | 2/postExam/qp_check_dashboard.php?exam=Y3Nsb2N0MjYxOQ== |  |
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|  |  |  | (D) All of the options |  |
| 101 | 26-10-2019 | 5 | The person who has been presented the most effective Swachchta Ambassador award on the occasion of 150th birth anniversary of Mahatma Gandhi at the India Today Safaigiri Summit <br> (A) Shri Sachin Tendulkar <br> (B) Shri Akshay Kumar <br> (C) Ms PV Sindhu <br> (D) Shri Amir Khan | (A) |
| 101 | 26-10-2019 | 6 | 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: <br> Please convey / my best wishes / back to your parents. <br> (A) Please convey <br> (B) my best wishes <br> (C) back to your parents <br> (D) No error | (C) |
| 101 | 26-10-2019 | 7 | Fill up with the correct option: <br> If I $\qquad$ you I should have told him the truth. <br> (A) am <br> (B) was <br> (C) had been <br> (D) were | (D) |
| 101 | 26-10-2019 | 8 | Out of the four alternatives, choose the one which can be substituted for the given words. <br> To free somebody from all blame <br> (A) Highbrow <br> (B) Exonerate <br> (C) Escapism | (B) |




| 101 | 26-10-2019 | 16 | In this series, you will be looking at both the letter pattern and the number pattern. Fill the blanks. <br> B2CD, $\qquad$ , BCD4, B5CD, BC6D <br> (A) B2C2D <br> (B) BC 3 D <br> (C) B2C3D <br> (D) BCD7 | (B) |
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| 101 | 26-10-2019 | 17 | Five people $P, Q, R, S$, and $T$ are sitting in a row facing towards the north. $P$ is two places away to the left of Q . R is two places away to the right of S. <br> T is not sitting at the extreme left as well as next to R . Who is sitting in the middle? <br> (A) S <br> (B) P <br> (C) R <br> (D) Q | (C) |
| 101 | 26-10-2019 | 18 | Reaching a place of appointment on Friday I found that I was two days earlier than the scheduled day. If I had reached on the following Wednesday how many days late would I have been? <br> (A) one day <br> (B) two days <br> (C) three days <br> (D) four days | (C) |
| 101 | 26-10-2019 | 19 | "A @ B " means A is the mother of B "A \# B" means A is the father of B "A \% B" means A is the son of B How is X related to Z from the given equation? X \% Y \% Z <br> (A) X is the grandson of Z <br> (B) X is the father of Z | (A) |




| 10/29/2019 |  | 2.191 | .32/postExam/qp_check_dashboard.php?exam=Y3Nsb2NOMjYxOQ== <br> (B) (ii) and (iii) <br> (C) (ii) and (iv) <br> (D) (i) and (iii) |  |
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| 101 | 26-10-2019 | 29 | An odd shaped body weighing 7.5 kg and occupying $0.01 \mathrm{~m}^{3}$ volume will be completely submerged in a fluid having specific gravity of <br> (A) 1 <br> (B) 1.2 <br> (C) 0.8 <br> (D) 0.75 | (D) |
| 101 | 26-10-2019 | 30 | Couette flow is characterized by <br> (A) steady, incompressible, laminar flow through a straight circular pipe <br> (B) filly developed turbulent flow through a straight circular pipe <br> (C) steady, incompressible, laminar flow between two fixed parallel plates <br> (D) steady, incompressible, laminar flow between one fixed plate and the other moving with a constant velocity | (D) |
| 101 | 26-10-2019 | 31 | Jobs arrive at a facility at an average rate of 5 in an 8 hour shift. The arrival of the jobs follows Poisson distribution. The average service time of a job on the facility is 40 minutes. The service time follows exponential distribution. Idle time (in hours) at the facility per shift will be <br> (A) $5 / 7$ <br> (B) $14 / 3$ <br> (C) $7 / 5$ <br> (D) $10 / 3$ | (B) |
| 101 | 26-10-2019 | 32 | Thermal conductivity of water at 20 deg Cel is of the order of <br> (A) 0.1 <br> (B) 0.23 | (D) |



| 101 | 26-10-2019 | 37 | The device used to regulate the flow of the refrigerant in a system is known as $\qquad$ <br> (A) Capillary tube <br> (B) Solenoid Valve <br> (C) Thermostatic expansion valve <br> (D) All of the options |
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refrigerant in a system is known as ---
(A) Capillary tube
(B) Solenoid Valve
(C) Thermostatic expansion valve
(D) All of the options

Pick up the wrong statement
(A) 2-stroke engine can run in any direction
(B) In 4-stroke engine, a power stroke is obtained in 4-strokes
(C) Petrol engines occupy more space than diesel engines for same power output
(D) Thermal efficiency of 4-stroke engine is more due to positive scavenging

The major difficulty during welding of aluminum is due to its
(A) high tendency of oxidation
(B) high thermal conductivity
(C) low melting point
(D) low density

A block weighing 200 N is in contact with a level plane whose coefficients of static and kinetic friction are 0.4 and 0.2 , respectively. The block is acted upon by a horizontal force (in newton) $\mathrm{P}=10 \mathrm{t}$, where t denotes the time in seconds. The velocity (in $\mathrm{m} / \mathrm{s}$ ) of the block attained after 10 seconds
(A) 5
(B) 6
(C) 8
(D) 3

Scavenging air in diesel engine means
(A) air used for combustion sent under pressure



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| 101 | 26-10-2019 | 51 | Time dependent permanent deformation is called <br> (A) Plastic deformation <br> (B) Elastic deformation <br> (C) Creep <br> (D) Anelastic deformation | (C) |
| 101 | 26-10-2019 | 52 | Consider a cantilever beam, having negligible mass and uniform flexural rigidity, with length 0.01 m . The frequency of vibration of the beam, with a 0.5 kg mass attached at the free tip, is 100 Hz . The flexural rigidity (in $\mathrm{Nm}^{2}$ ) of the beam is <br> (A) 0.1 <br> (B) 0.08 <br> (C) 1 <br> (D) 0.065 | (D) |
| 101 | 26-10-2019 | 53 | Which is best suitable method of layout for Ship building <br> (A) Process Layout <br> (B) Product layout <br> (C) Fixed position layout <br> (D) None of the options | (C) |
| 101 | 26-10-2019 | 54 | Which type of welding is highly recommended for welding materials having smaller wall thickness? <br> (A) TIG <br> (B) MAW <br> (C) SAW <br> (D) None of the options | (A) |
| 101 | 26-10-2019 | 55 | Air in a room is at $35^{\circ} \mathrm{C}$ and $60 \%$ relative humidity ( RH ) The pressure in the room is 0.1 Mpa . The saturation pressure of water at $35^{\circ} \mathrm{C}$ is 5.63 kPa . The humidity ratio of the air (in grain $/ \mathrm{kg}$ of dry air) is <br> (A) 21.74 | (A) |


$\square$
(A) conduction
(B) convection
(C) radiation
(D) scattering

