

| Decision of the Commission on objections General Studies & Mental Ability - AE Various Posts (Notification: 09/2016) - 1st Feb 2017 Final decision published on 24/03/2017 | | | | | | | | |
|--|---|---|---|---|---|-----|-----------|--|
| Question ID | Description | Option 1 | Option 2 | Option 3 | Option 4 | Key | Final Key | Decision of Commission |
| 798407773 | What is the position of India in the Global Competitiveness Index 2015-16 released by WEF? | 71 | 55 | 51 | 77 | 1 | 2 | Option 2 is correct i.e 55th position |
| 798407792 | Cissus Quadrangularis (Nalleru) is used as medicine for | Bone Health | Constipation | Cancer | TB | 1 | 1 and 3 | Nalleru is useful for cancer also. Hence, option 3 is also correct |
| 798407844 | Main element in Pitchblende | Thorium | Molybdenum | Uranium | Manganese | 1 | 3 | Option to be changed to 3 i.e Uranium |
| 798407854 | What is the Forest Cover in AP in 2015 as percentage of total geographical area? | 17.72% | 18.72% | 19.72% | 20.72% | 1 | 0 | The question is on forest cover. Not on recorded forest area. But in Telugu it is written as Forest area. Forest and tree cover is 17.72% which is the given answer. Source ISFR. 2015. But forest area is different at 23.25%. As there is ambiguity, Hence question is deleted |
| 798407870 | In the COP 21 convention held at Paris, it was proposed to limit the level of global warming to | 3 degree centigrade above pre industrial levels | 1 degree centigrade above pre industrial levels | 2 degree centigrade above pre industrial levels | 4 degree centigrade above pre industrial levels | 1 | 3 | Option to be changed to 3 i.e within 2 degree above pre-industrial levels |
| 798407874 | Which is the odd one out of the below mentioned items? | Feather | Fur | Hair | Pile | 1 | 1 and 4 | From one aspect 4 also is correct answer i.e both Pile and feather are correct answers |
| 798407875 | Today is Wednesday. What will be the day after 94 days? | Wednesday | Monday | Tuesday | Sunday | 1 | 0 | There is no correct answer. Hence Question is deleted |
| 798407876 | If SURVIVE is VXUYLYH, What would be MONSOON? | PRQVRRQ | PTQVRRQ | PRQUSSQ | PTRVSSQ | 1 | 0 | There is no correct answer. Hence Question is deleted |
| 798407878 | Ram travels 3 kms to the West , turns left and goes 3 kms, turns right and goes 1 km and again turns right and goes 3 kms. How far he is from the starting point? | 6 Kms | 7 Kms | 5 Kms | 4 Kms | 1 | 4 | upon reexamination it is decided that the correct answer is 4Km i.e option 4 is correct. |
| 798407891 | Which of the following is not an ancient cereal? | Maize | Rice | Wheat | Barley | 1 | 0 | There is no official definition of ancient cereal but generally those cereals which have not been hybridized or genetically modified are treated as ancient cereals. Hence Question is deleted. |
| 798407901 | Who of the following are in one Row? | SQU | UQR | RTQ | PTR | 1 | 1 and 4 | Option 4 is also correct i.e PTR is also correct |
| 798407905 | After interchanging seats with T by S, who will be the neighbors of S in the new position? | Only Q | R and P | U and Q | Only R | 1 | 2 | Option 2 is correct i.e R & P |
| Note : | All the other objections are untenable. | | | | | | | |

| Decision of Commission on objections on CIVIL AND MECHANICAL COMMON PAPER 2 (Notification: 09/2016)- 1st Feb 2017 Final decision published on 24/03/2017 | | | | | | | | |
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| Question ID | Description | Option 1 | Option 2 | Option 3 | Option 4 | Key | Final Key | Decision of Commission |
| 798407611 | An open U tube is containing mercury. Kerosene of specific gravity 0.8 is poured into one of its limbs so that the length of column of kerosene is about 40 cm. The level of mercury column in that limb is lowered approximately by how much? | 2.35 cm | 3.6 cm | 1.2 cm | 0.6 cm | 1 | 3 | Option 3 is the correct option |
| 798407643 | A point load 'W' is acting at mid span of a cantilever of length 'l'. If the free end is supported on a rigid prop, the reaction of the prop is | $\frac{5W}{13}$ | $\frac{5W}{11}$ | $\frac{5W}{16}$ | $\frac{7W}{9}$ | 1 | 3 | Correct option is 3 |
| 798407704 | Doubling the length of a column brings down the load it can carry without buckling by a factor of | 4 | 2 | 1/2 | 1/4 | 1 | 0 | Boundary conditions not given. Question is ambiguous and cannot be answered. Hence question is deleted. |
| 798407712 | Greatest shear stress in a thin cylinder is | $\frac{pd}{8t}$ | $\frac{pd}{2t}$ | $\frac{pd}{4t}$ | $\frac{pd}{6t}$ | 1 | 3 | Option 3 is the correct option |

| | | $\frac{pd}{8t}$ | $\frac{pd}{2t}$ | $\frac{pd}{4t}$ | $\frac{pd}{6t}$ | | | |
|-----------|---|----------------------------------|----------------------------------|-------------------------------------|-----------------------------------|---|---|--|
| 798407713 | The thin cylinder analysis is generally applicable for a d/t ratio of | ≥ 20 | ≥ 15 | ≥ 10 | ≤ 8 | 1 | 3 | Option 3 is the correct option |
| 798407717 | If the velocity is zero over half of the cross-sectional area and is uniform over the remaining half, then the momentum correction factor is | 2 | 1 | 4/3 | 4 | 1 | 0 | There is ambiguity in the questions. Hence question is deleted |
| 798407722 | Factor of safety is the ratio of | lower yield and working stresses | ultimate and working stresses | upper yield and working stresses | ultimate and lower yield stresses | 1 | 0 | Material property not given and the question is ambiguous. Hence Question is deleted. |
| 798407730 | Rivets in lap joints are subjected to | Axial and shear forces | Axial forces only | Double shear | Single shear alone | 1 | 4 | Option 4 is the correct option |
| 798407732 | Bending moment at a section has the maximum value where | shear force is zero | the load function has zero value | shear force is zero or changes sign | the load has maximum value | 1 | 3 | Correct option is 3 |
| 798407733 | The diameter of the hole at the gage point while for making connection for various devices for pressure measurement should be about | 3 mm to 6 mm | 1 mm to 3 mm | 6 mm to 9 mm | 9 mm to 12 mm | 1 | 2 | Option 2 is the correct option |
| 798407638 | From a reservoir, water is drained through two pipes of 10 cm and 20 cm diameter respectively. If frictional head loss in both the pipes is same, then the ratio of discharge through the larger pipe to that through the smaller pipe will be | $\sqrt{2}$ | $2\sqrt{2}$ | 4 | $4\sqrt{2}$ | 1 | 4 | Correct option is 4 |
| 798407641 | Water is pumped out of a deep well under a total head of 98m. Number of similar pumps with a design speed of 1000 rpm and specific speed of 900 with a rated capacity of 0.15m ³ /s are available. How many numbers of pumps will be needed to pump the water from the well? | 3 | 9 | 6 | 2 | 1 | 0 | Correct option not given in answers i:e 394 pumps required. Hence Question is deleted. |
| 798407657 | To avoid vapourisation, pipe lines are laid over the ridge so that these are above the hydraulic gradient line, not more than | 6.4 m | 2.4 m | 5.0 m | 10.0 m | 1 | 2 | Correct option is 2 |
| 798407670 | In a centrifugal pump casing, the flow of water leaving the impeller is | free vortex motion | rectilinear flow | radial flow | forced vortex | 1 | 4 | Correct option is 4 |
| 798407679 | The normal force or thrust exerted by a jet of water of cross sectional area 'a' and velocity 'V' on a flat plate inclined at an angle θ to the t is given by (where Q is the discharge.) | $QV \sin^2\theta /g$ | $QV \cos\theta /g$ | $QV \sin\theta /2g$ | $QV (1+\sin\theta) /g$ | 1 | 0 | Correct option not given in answers. Hence Question is deleted. |
| Note : | All the other objections are untenable. | | | | | | | |