| University of Mumbai Online Examination 2020 Program: BE Mechanical Engineering Curriculum Scheme: Revised 2012 Examination: Final Year Semester VIII Course Code: MEC801 Course Name: Design of mechanical systems Time: 1 hour Max. Marks: 50 Note to the students:- All Questions are compulsory and carry equal marks . Q Experimental Models are prepared in which phase? A Conceptual Design B Embodiment Design C Detailed design D Planning for manufacture A Conceptual Design C Correct sequence is- A A B D C B A Continuous C D C B A D Combinatorial D Pointing of pointization problems give finite feasible solutions? A Continuous C Combinatorial D exponential Q In designing hook, the standard practice is to adopt the dimensions of the hook based on A In designing hook, the standard practice is to adopt the dimensions of the hook based on A In designing hook, the standard practice is to adopt the dimensions of the hook based on | | |
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| Q The top part of the hook ends in a round shank operating in | | |
| | | |
| | | |
| A only tension | | |
| B only compression | | |
| C only torsion | _ | |
| D only shear | | |
| Q Which type of cross section is preferred for crane hook? | Q | which type of cross section is preferred for crane hook? |

| A | Circular |
|---|--|
| В | Trapezoidal |
| С | elliptical |
| D | square |
| Q | As the number of bends increases, the life of steel wire ropes |
| A | increases |
| В | decreases |
| С | remains constant |
| D | may increses or decreses |
| | |
| | In belt conveyor system , resistance on the top run (kgf) |
| | Wo = CFL ((Gg+Gb)cos δ +Gro) +/- H (Gg+Gb) . In this formulla minus sign indicatesIn |
| | belt conveyor system , resistance on the top run (kgf) |
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| | belt conveyor system , resistance on the top run (kgf) |
| Q | Wo = CFL ((Gg+Gb)cos δ +Gro) +/- H (Gg+Gb) . In this formulla minus sign indicates |
| A | Conveying down |
| В | Conveying up |
| С | Conveying horizontal |
| D | Conveying inclined |
| Q | In case of conveyor, limitations on inclination angle depend upon- |
| A | Density |
| В | required hourly capacity |
| С | Angle of repose of material with belt surface |
| D | number of load carrying rollers |
| Q | In case of conveyor, power requirement depend upon- |
| А | Resistance on top run only |
| В | Resistance on top run and bottom run only |
| С | Resistance on top run and bottom run, conveying velocity and coefficient of friction |
| D | Resistance on top run and bottom run and diameter of pulley |
| | Working tension , kgf/mm width per ply of mechanical joints and gravity take up or vulcanized |
| Q | and screw take up for 42oz is |
| А | 0.62 |
| В | 1.07 |
| С | 0.82 |
| D | 0.77 |
| Q | For one complete cycle four stroke engine requires - |
| А | One complete revolutions of cramkshaft |
| В | two complete revolutions of cramkshaft |
| С | Three complete revolutions of cramkshaft |
| D | Four complete revolutions of cramkshaft |

| | The cubic capacity of a four strike engine spark ignition engine is 245 cc. the D/ L = 1.1 |
|----------------|--|
| Q | clearence volume is 27.2 cc, calculate compression ratio. |
| A | 10 |
| B | 6 |
| C | 13 |
| D | 18 |
| | The mechanical efficiency of single cylinder four stroke engine is 80 %, the frictional power is |
| Q | estimated to be 25 KW then calculate brake power developed by engine. |
| A | 125 KW |
| В | 25 KW |
| C | 100 KW |
| D | 150 KW |
| Q | Function of piston pin is to connect - |
| A | crank with crankshaft |
| B | volve with spring |
| <mark>C</mark> | piston with connecting rod |
| D | connecting rod with crank |
| | Number of piston rings are n = $0.4*VD$, if bore diameter is 100 mm then how may piston rings |
| Q | are required? |
| A | 5 |
| B | 4 |
| <mark>C</mark> | 6 |
| D | 10 |
| Q | In which of following pump we can provide discharge valve? |
| A | Centrifugal pump |
| B | Screw pump |
| <mark>C</mark> | Diaphragm pump |
| D | Peristaltic pumps |
| Q | In case of gear pump which type of forces act on shaft? |
| A | Tangential and radial force by gears |
| B | Tangential force only |
| <mark>C</mark> | Tangential and radial force by gears and hydraulic forces |
| D | Only axial force |
| Q | In case of gear pump horizantal component of hydraulic force is given by- |
| A | Pmax * R * b |
| В | 1.6366 * Pmax * R * b |
| С | 6.5676 * Pmax * R * b |
| D | 6.5676 * Pmax |
| Q | For clear clean water which type of impeller is preffered? |
| A | open impeller |
| В | semiopen impeller |
| С | closed impeller |
| D | radial impeller |
| Q | In which method ratio of two successive amplitude remains same? |
| A | Arithmetic progression |
| В | Geometric progression |
| С | Harmonic progression |

| D | Logarithmic progression |
|---|--|
| Q | Geometric progression is prefered in design of machine tool gear box because of |
| A | Variable loss of economic cutting speed |
| В | Constant loss of economic cutting speed |
| С | lesser loss of economic cutting speed |
| D | easy to understand |
| | |
| Q | If structural formula is written like 3(1) 2(6) 2(3) then how many speed steps are obtained? |
| A | 9 |
| В | 6 |
| С | 12 |
| D | 4 |
| Q | If Nmax =2000, Nmin= 160 and speed steps are 12 then geometric progression ratio is - |
| A | 1.5674 |
| В | 1.2581 |
| С | 2.6754 |
| D | 1.4565 |
| D | |