Graduate Aptitude Test in Engineering 2017

Question Paper Name: Textile Engineering and Fibre Science 4th Feb 2017 **Subject Name:** Textile Engineering and Fibre Science

Duration: 180 **Total Marks:** 100



Organizing Institute: Indian Institute of Technology Roorkee

















Correct: 1 Wrong: -0.33

If the scalar projection of the vector $\vec{a} = 3\hat{i} + \beta \hat{k}$ on the vector $\vec{b} = 2\hat{i} - 2\hat{j} + \hat{k}$ is 5, then a value of β is equal to

(A) 21

(B) 9

(C) -1

(D) - 6

Question Number: 2

Correct: 1 Wrong: -0.33

The Laplace transform of $e^{-t}\cos(2t)$ is

(A)
$$\frac{s-1}{s^2 - 2s + 5}$$

(B)
$$\frac{1}{s^2 + 2s + 5}$$

(C)
$$\frac{s+1}{s^2+2s+2}$$

(D)
$$\frac{s+1}{s^2+2s+5}$$



Question Number: 3

Correct: 1 Wrong: 0

If
$$z(x,y) = x^2 - y^2$$
, $x(t) = t - t^{-2}$ and $y(t) = t^2 + t^{-3}$ then $\frac{dz}{dt}$ at $t = 1$ is equal to ______

Question Number: 4

Correct: 1 Wrong: -0.33

The characteristic observation in burning test of cotton fibre is

- (A) Burns readily with whitish ash as residue
- (B) Burns with dripping
- (C) Burns with burning hair smell
- (D) Melts and forms a hard bead

Correct: 1 Wrong: -0.33

The given structure is a repeat unit of

- (A) Cellulose acetate
- (B) Cellulose
- (C) Polyamide
- (D) Polyester



Correct: 1 Wrong: -0.33

Correct : 1 Wrong : -0.33

Which of the following is(are) bast fibre(s)

- P. Cotton
- Q. Flax
- R. Silk
- S. Jute
- (A) P only
- (B) Q and R only
- (C) Q and S only
- (D) S only

Question Number: 7

During crystallization of polyester

- (A) Heat is evolved
- (B) Heat is absorbed
- (C) No exchange of heat takes place
- (D) Small molecule such as water is eliminated

Correct: 1 Wrong: -0.33

Which of the following fibre(s) is(are) manufactured by melt spinning process

- P. Viscose
- Q. Cellulose acetate
- R. Nylon-6
- S. Aramid
- (A) P only
- (C) R only

- (B) Q and R only
- (D) R and S only

Question Number: 9

Correct: 1 Wrong: -0.33

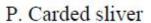
Keeping card production same, the quality of carding will improve by setting

- (A) Higher doffer rpm and coarser sliver hank
- (B) Higher doffer rpm and finer sliver hank
- (C) Lower doffer rpm and coarser sliver hank
- (D) Lower doffer rpm and finer sliver hank

Question Number: 10

Correct: 1 Wrong: -0.33

The tenacity of



- Q. First drawn sliver
- R. Second drawn sliver
- S. Combed sliver

follows the order

(A)
$$P > Q > R > S$$

(B)
$$S > R > Q > P$$

(C)
$$R > S > P > Q$$

(D)
$$Q > R > S > P$$

Correct : 1 Wrong : -0.33

For a given yarn fineness, use of ring traveller of too small a mass gives

- (A) Small balloon size but more yarn content on the bobbin
- (B) Small balloon size but less yarn content on the bobbin
- (C) Big balloon size but more yarn content on the bobbin
- (D) Big balloon size but less yarn content on the bobbin

Question Number: 12

Correct : 1 Wrong : -0.33

In cotton combing process, the counter-feed system gives

- (A) Low removal of noil and low elimination of impurities
- (B) Low removal of noil and high elimination of impurities
- (C) High removal of noil and low elimination of impurities
- (D) High removal of noil and high elimination of impurities

Question Number: 13

Correct: 1 Wrong: -0.33

Probability of warp breakage during weaving increases, when

- (A) Warp extensibility is decreased
- (B) Warp unevenness is decreased
- (C) End density is decreased
- (D) Warp hairiness is decreased

Question Number: 14

Correct: 1 Wrong: -0.33

In terms of weft insertion rate, which of the following is correct?

- (A) Airjet > Waterjet > Multiphase > Projectile
- (B) Multiphase > Airjet > Waterjet > Projectile
- (C) Projectile > Waterjet > Airjet > Multiphase
- (D) Waterjet > Projectile > Multiphase > Airjet

Question Number: 15

Correct: 1 Wrong: -0.33

A tuck stitch in knitting makes the fabric

- (A) Narrower
- (B) Thinner
- (C) More rigid in course direction
- (D) Wider and porous

Question Number: 16 Correct: 1 Wrong: -0.33

A perpendicular-laid nonwoven

- (A) Should not contain thermoplastic fibre
- (B) Does not form a 3-D structure
- (C) Cannot be used as a replacement of foam
- (D) Exhibits high recovery from compression

Question Number: 17 Correct: 1 Wrong: -0.33

The cut squaring technique of sampling of fibres is **NOT** applicable to

(A) Bale

(B) Sliver

- (C) Roving
- (D) Yarn

Correct: 1 Wrong: -0.33

Question Number: 18

The ratio of wet-strength to dry-strength of viscose fibre is

- (A) Equal to one
- (B) Always less than one
- (C) Always greater than one
- (D) Sometimes greater and sometimes less than one

Question Number: 19 Correct: 1 Wrong: -0.33

Theoretical limit for mass irregularity (CV_{lim}) of a cotton yarn does NOT depend on

(A) Mean fibre length

(B) Mean fibre fineness

(C) Mean yarn count

(D) Coefficient of variation of fibre fineness

Question Number: 20 Correct: 1 Wrong: -0.33

Diamond bars appear in woven fabric due to

- (A) Faulty loom parts
- (B) Excessive warp irregularity
- (C) Periodic fault in warp yarn
- (D) Periodic fault in weft yarn

| Question Number In a three-sigma co process is under cor | ntrol chart, the probability | Corre that a point falls outside the | ect: 1 Wrong: -0.33 e control limits, when a | |
|--|------------------------------|--------------------------------------|--|--|
| (A) 0 | (B) 0.0027 | (C) 0.01 (D) | 0.05 | |
| Question Numbe | r : 22 | Corre | ct: 1 Wrong: -0.33 | |
| Shrinkage of cott | on fabric during wetting | g is caused by | | |
| (A) Extension of | fibre | (B) Crimping of f | ibre | |
| (C) Swelling of f | | | (D) Compression of fibre | |
| | | | | |
| Question Numbe | r: 23 | Corre | ct: 1 Wrong: -0.33 | |
| Vapour-phase fla | me retardant agents are | based on compounds cont | taining | |
| (A) Nitrogen (B) Phosphorus | | (C) Halogens | (D) Aluminium | |
| | | | | |
| Question Numbe | r : 24 | Corre | ct: 1 Wrong: -0.33 | |
| White specks obs | erved in dyed cotton fal | oric are attributed to | | |
| (C) Low temperat | agitation of dye bath | | | |

Number of moles, accurate to one decimal place, required in 200 cm³ to make 0.5 mol l⁻¹ sodium

Question Number: 25

hydroxide solution is _____

Correct: 1 Wrong: 0

The median, accurate to two decimal places, of a random variable X with the probability density

function
$$f(x) = \begin{cases} 3x^{-4} & x > 1 \\ 0 & x \le 1, \end{cases}$$
 is _____

Question Number: 27

Correct: 2 Wrong: 0

Using Simpson's 1/3 rule, the value of the integral $\frac{1}{\pi} \int_{0}^{\pi} (1 + \sqrt{\sin(x)}) dx$, accurate to two decimal places, is _____

Question Number: 28

Correct: 2 Wrong: -0.66

If a solution curve of the differential equation $x\frac{dy}{dx} = y + 2x^3$ passes through the point (1,0), then this curve also passes through the point

- (A) (-1,0)
- (B) (0,-1)
- (C)(2,10)
- (D) (-2,6)

Question Number: 29

Correct : 2 Wrong : -0.66

The system of linear equations $\begin{cases} \alpha x - 2y = 4 \\ 2x + 4y = \beta \end{cases}$ has

- (A) No solution for $\alpha = 1$, $\beta = -8$
- (B) Unique solution for $\alpha = -1$, $\beta = 8$
- (C) Infinitely many solutions for $\alpha = -1$, $\beta = -8$
- (D) Infinitely many solutions for $\alpha = 1$, $\beta = 8$

Correct : 2 Wrong : -0.66

The function $f(x) = x^3 - 3x^2 - 9x + 10$ is

- (A) Increasing in the interval $(1, \infty)$
- (B) Increasing in the interval $(-\infty, 1)$
- (C) Decreasing in the interval (-1, 3)
- (D) Decreasing in the interval (-3, 1)

Question Number: 31

Group I contains techniques of fibre manufacturing. Group II gives the physical phenomena associated with these techniques. Match the technique with the phenomenon

Group I G

- P. Melt spinning
- Q. Wet spinning
- R. Dry spinning
- (A) P-1, Q-2, R-3
- (C) P-3, Q-2, R-1

Group II

- 1. Diffusion of only solvent
- 2. Diffusion of both solvent and non-solvent
- 3. No solvent diffusion
 - (B) P-3, Q-1, R-2
 - (D) P-1, Q-3, R-2

Question Number: 32

Correct: 2 Wrong: 0

The average molecular mass, in g/mol, of nylon-6 polymer, having average degree of polymerization of 100, is _____ (given S = 32 amu, N = 14 amu, O = 16 amu, C = 12 amu, C = 12 amu

Correct : 2 Wrong : -0.66

Group I consists of names of fibres. Group II gives characteristic structural features of these fibres. Match the fibre from Group I to its respective feature from Group II

Group I Group II

- P. Cotton 1. Para- and ortho-cortex
- Q. Jute 2. Primary and secondary wall
- R. Wool 3. Fibroin β-sheets
- S. Silk 4. Multicellular
- (A) P-4, Q-1, R-2, S-3 (C) P-2, Q-3, R-4, S-1

- (B) P-2, Q-4, R-1, S-3
- (D) P-2, Q-4, R-3, S-1

Question Number: 34

Correct: 2 Wrong: -0.66

Wool gives warmth because it has

- P. A helical structure which can entrap air
- Q. High heat of sorption
- R. Low crystallinity
- S. High extensibility
- (A) P and Q only
- (C) P and S only

(B) Q and R only

(D) P and R only

Question Number: 35

Correct: 2 Wrong: 0

To obtain high molecular weight nylon-66, if 11.6 g of hexamethylene diamine (molecular weight 116 g/mol) is used, then the required amount of adipic acid (molecular weight 146 g/mol), in gram, accurate to one decimal place, is

Question Number: 36 Correct: 2 Wrong: 0

If the distance between two adjacent fibres of circular cross-section in a hexagonally packed yarn is equal to the radius of the fibre, then the packing density of yarn, accurate to three decimal places, is

| Question Number: 37 | Correct: 2 Wrong: 0 |
|---|--|
| A 30 tex open-end rotor yarn having 650 twist per meter 1,20,000 rotor rpm. The rotational speed of the peel-off | |
| Question Number : 38 | Correct: 2 Wrong: 0 |
| A bobbin lead roving frame is running at 25 m/min delirotational speed of the bobbin, at the instant of 0.10 m places, is rpm | |
| Question Number : 39 | Correct: 2 Wrong: 0 |
| A T-shirt is produced from cotton fibre of 1520 kg m ⁻³ of The total number of fibres in the T-shirt of 0.15 kg is | density, 1.4 dtex fineness and 30 mm length. $\times 10^6$ |
| Question Number: 40 Pilling resistance of | Correct: 2 Wrong: -0.66 |
| (A) Ring yarn is higher than open-end rotor yarn (B) Air vortex yarn is higher than ring yarn but le | and the second of the second o |

- (C) Open-end rotor yarn is higher than ring yarn but lesser than air vortex yarn
- (D) Ring yarn is higher than air vortex yarn but lesser than open-end rotor yarn

Correct: 2 Wrong: 0

A needle loom, having a needle board with 2000 needles/m, is operating at a stroke frequency of 2000 strokes/min and producing a needle-punched nonwoven fabric at 5 m/min. The punch density, in number of punches per cm², is ______

Compared to conventional sizing, the wet sizing process reduces

- (A) Size consumption substantially
- (B) Consumption of drying energy
- (C) Weavability of warp yarn
- (D) Tensile strength of yarn

Question Number: 43

Correct: 2 Wrong: 0

Correct: 2 Wrong: 0

Correct: 2 Wrong: -0.66

In a fabric, warp count is 25 tex, weft count is 32 tex, ends per cm is 25, picks per cm is 15, warp crimp is 6% and weft crimp is 8%. The areal density of the fabric, in g/m², accurate to two decimal places, is ______

Question Number: 44

Let a cheese of 160 mm traverse length be wound on a rotary traverse machine having a drum of 75 mm diameter and 2.5 crossings. If the drum rotates at 3250 rpm, then the coil angle, in degrees, accurate to one decimal place, is

Question Number: 45

Correct: 2 Wrong: -0.66

Group I consists of weave designs. Group II lists end-use / property. Match the weave design from Group I with the corresponding end-use / property from Group II

Group I

- P. Leno
- Q. Honeycomb
- R. Jacquard
- S. Crepe
- (A) P-3, Q-4, R-1, S-2
- (B) P-4, Q-1, R-3, S-2
- (C) P-1, Q-2, R-4, S-3
- (D) P-3, Q-4, R-2, S-1

Group II

- 1. Furnishing
- 2. Broken and irregular surface
- 3. Mosquito net
- 4. Towel

Correct : 2 Wrong : -0.66

At 65 % relative humidity and 20 °C temperature, the moisture regain of the fibres

(P) Wool

(Q) Nylon 6

(R) Cotton

(S) Polyester

follows the order

(A)
$$P > Q > R > S$$

(B)
$$P > R > Q > S$$

(B)
$$P > R > Q > S$$
 (C) $R > P > Q > S$ (D) $R > P > S > Q$

(D)
$$R > P > S > Q$$

Question Number: 47

Correct: 2 Wrong: 0

While measuring tensile properties using Stelometer at 3.2 mm gauge length, a cotton fibre bundle of 15 mm length and 4.5 mg weight registers a breaking load of 6 kg. The bundle tenacity (g/tex) is

Question Number: 48

Correct: 2 Wrong: 0

The tenacity of a two-fold yarn is 1.1 times the tenacity of its component single yarn. The breaking load of the two-fold yarn is X times the breaking load of its single component yarn. Neglecting length contraction due to twist, the value of X, accurate to one decimal place, is

Ouestion Number: 49

Correct: 2 Wrong: 0

The compressive pressure applied onto a fabric is inversely proportional to the cube of thickness of the fabric. If the thickness is halved during compression, then the pressure increases by times.

Correct: 2 Wrong: 0 **Question Number: 50**

The coefficient of correlation between packing density and porosity of a set of yarns is

Determine the correctness or otherwise of the following Assertion [a] and the Reason [r]

Assertion: Jet dyeing machines yield level dyeing in short dyeing time Reason: Jet dyeing machines use pressure jets to force dye into the fibre

- (A) Both [a] and [r] are true, and [r] is the correct reason for [a]
- (B) Both [a] and [r] are true, but [r] is not the correct reason for [a]
- (C) Both [a] and [r] are false
- (D) [a] is true but [r] is false

Question Number: 52

Group I lists chemical processes. Group II lists chemicals used in these processes. Match the process with the corresponding chemical

Group I

- P. Carbonising
- Q. Scouring
- R. Bleaching
- S. Mercerising
- (A) P-2, Q-3, R-4, S-1
- (C) P-3, Q-1, R-2, S-3

Group II

- 1. Na₂CO₃
- 2. H₂SO₄
- 3. NaOH
- 4. H₂O₂
- (B) P-2, Q-1, R-4, S-3
- (D) P-2, Q-1, R-3, S-4

Question Number: 53

Correct : 2 Wrong : -0.66

Correct : 2 Wrong : -0.66

Correct : 2 Wrong : -0.66

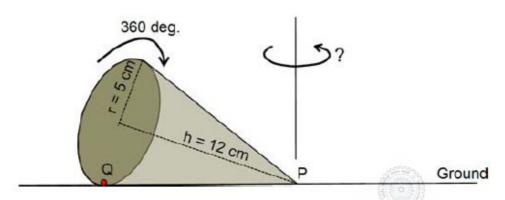
Determine the correctness or otherwise of the following statements

- [p] The contact angle θ is indicative of the wettability of a textile surface by a liquid [q] Values of $\theta > 90^{\circ}$ indicate poor wetting surfaces
- (A) Both [p] and [q] are true
- (B) Both [p] and [q] are false
- (C) [p] is true but [q] is false
- (D) [p] is false but [q] is true

| Question Number: 5 | 4 | Co | orrect : | 2 Wrong: 0 |
|---|---------------------------------|-------------------------|-----------|-----------------|
| The add-on of a chemical up is 80 %, then the con two decimal places, is | centration of finish req | | | |
| Question Number : 5 | 55 | Cor | rect: 2 | Wrong: -0.66 |
| Determine the correct | ness or otherwise of | the following Assertion | n [a] and | the Reason [r] |
| Assertion: Burnt out e Reason: Printing paste | | | | |
| (A) Both [a] and [r] ard (B) Both [a] and [r] ard (C) Both [a] and [r] ard (D) [a] is true but [r] in | e true but [r] is not the false | |] | |
| Question Number: 5 | 66 | Cor | rect : 1 | Wrong: -0.33 |
| He was one of my best | and I felt | his loss | | |
| (A) friend, keenly | (B) friends, keen | (C) friend, keener | (D) | friends, keenly |
| Question Number: 5 | 7 | Cor | rect:1 | Wrong: -0.33 |
| As the two speakers be | came increasingly agi | tated, the debate becam | e | |
| (A) lukewarm | (B) poetic | (C) forgiving | | heated |

Correct: 1 Wrong: -0.33

A right-angled cone (with base radius 5 cm and height 12 cm), as shown in the figure below, is rolled on the ground keeping the point P fixed until the point Q (at the base of the cone, as shown) touches the ground again.



By what angle (in radians) about P does the cone travel?

 $(A)\frac{5\pi}{12}$

(B) $\frac{5\pi}{24}$

- (C) $\frac{24\pi}{5}$
- (D) $\frac{10\pi}{13}$

Question Number: 59

Correct : 1 Wrong : -0.33

In a company with 100 employees, 45 earn Rs. 20,000 per month, 25 earn Rs. 30,000, 20 earn Rs. 40,000, 8 earn Rs. 60,000, and 2 earn Rs. 150,000. The median of the salaries is

- (A) Rs. 20,000
- (B) Rs. 30,000
- (C) Rs. 32,300
- (D) Rs. 40,000

Question Number: 60

Correct : 1 Wrong : -0.33

P, Q, and R talk about S's car collection. P states that S has at least 3 cars. Q believes that S has less than 3 cars. R indicates that to his knowledge, S has at least one car. Only one of P, Q and R is right. The number of cars owned by S is

(A) 0

(B) 1

(C) 3

(D) Cannot be determined

"Here, throughout the early 1820s, Stuart continued to fight his losing battle to allow his sepoys to wear their caste-marks and their own choice of facial hair on parade, being again reprimanded by the commander-in-chief. His retort that 'A stronger instance than this of European prejudice with relation to this country has never come under my observations' had no effect on his superiors."

According to this paragraph, which of the statements below is most accurate?

- (A) Stuart's commander-in-chief was moved by this demonstration of his prejudice.
- (B) The Europeans were accommodating of the sepoys' desire to wear their caste-marks.
- (C) Stuart's 'losing battle' refers to his inability to succeed in enabling sepoys to wear caste-marks.
- (D) The commander-in-chief was exempt from the European prejudice that dictated how the sepoys were to dress.

Question Number: 62

Correct: 2 Wrong: -0.66

What is the sum of the missing digits in the subtraction problem below?

$$\frac{\overset{5}{-48}\overset{-}{-89}}{\overset{1}{1111}}$$

(A) 8

(B) 10

C) 11

(D) Cannot be determined

Question Number: 63

Correct : 2 Wrong : -0.66

Correct : 2 Wrong : -0.66

Let S_1 be the plane figure consisting of the points (x, y) given by the inequalities $|x - 1| \le 2$ and $|y + 2| \le 3$. Let S_2 be the plane figure given by the inequalities $x - y \ge -2$, $y \ge 1$, and $x \le 3$. Let S be the union of S_1 and S_2 . The area of S is

(A) 26

(B) 28

(C) 32

(D) 34

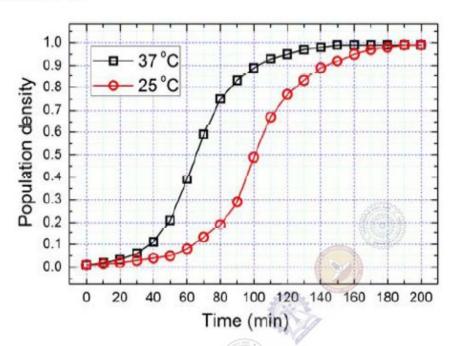
Question Number: 64

Two very famous sportsmen Mark and Steve happened to be brothers, and played for country K. Mark teased James, an opponent from country E, "There is no way you are good enough to play for your country." James replied, "Maybe not, but at least I am the best player in my own family."

Which one of the following can be inferred from this conversation?

- (A) Mark was known to play better than James
- (B) Steve was known to play better than Mark
- (C) James and Steve were good friends
- (D) James played better than Steve

The growth of bacteria (lactobacillus) in milk leads to curd formation. A minimum bacterial population density of 0.8 (in suitable units) is needed to form curd. In the graph below, the population density of lactobacillus in 1 litre of milk is plotted as a function of time, at two different temperatures, 25 °C and 37 °C.



Consider the following statements based on the data shown above:

- i. The growth in bacterial population stops earlier at 37 °C as compared to 25 °C
- ii. The time taken for curd formation at 25 °C is twice the time taken at 37 °C

Which one of the following options is correct?

- (A) Only i
- (B) Only ii
- (C) Both i and ii
- (D) Neither i nor ii

| Q. No. | Type | Section | Key | Marks |
|--------|------|---------|----------------|-------|
| 1 | MCQ | TF | В | 1 |
| 2 | MCQ | TF | D | 1 |
| 3 | NAT | TF | 3.99 to 4.01 | 1 |
| 4 | MCQ | TF | А | 1 |
| 5 | MCQ | TF | В | 1 |
| 6 | MCQ | TF | С | 1 |
| 7 | MCQ | TF | Α | 1 |
| 8 | MCQ | TF | С | 1 |
| 9 | MCQ | TF | В | 1 |
| 10 | MCQ | TF | Α | 1 |
| 11 | MCQ | TF | D | 1 |
| 12 | MCQ | TF | D | 1 |
| 13 | MCQ | TF | Α | 1 |
| 14 | MCQ | TF | В | 1 |
| 15 | MCQ | TF | D | 1 |
| 16 | MCQ | TF | D | 1 |
| 17 | MCQ | TF | Α | 1 |
| 18 | MCQ | TF | В | 1 |
| 19 | MCQ | TF | Α | 1 |
| 20 | MCQ | TF | D | 1 |
| 21 | MCQ | TF | В | 1 |
| 22 | MCQ | TF | С | 1 |
| 23 | MCQ | TF | С | 1 |
| 24 | MCQ | TF | D | 1 |
| 25 | NAT | TF | 0.09 to 0.11 | 1 |
| 26 | NAT | TF | 1.25 to 1.27 | 2 |
| 27 | NAT | TF | 1.65 to 1.76 | 2 |
| 28 | MCQ | TF | А | 2 |
| 29 | MCQ | TF | С | 2 |
| 30 | MCQ | TF | С | 2 |
| 31 | MCQ | TF | С | 2 |
| 32 | NAT | TF | 11299 to 11370 | 2 |
| 33 | MCQ | TF | В | 2 |
| 34 | MCQ | TF | Α | 2 |
| 35 | NAT | TF | 14.5 to 14.7 | 2 |
| 36 | NAT | TF | 0.380 to 0.420 | 2 |

| 37 | NAT | TF | 121 to 123 | 2 |
|----|-----|----|------------------|---|
| 38 | NAT | TF | 1327 to 1331 | 2 |
| 39 | NAT | TF | 34 to 37 | 2 |
| 40 | MCQ | TF | С | 2 |
| 41 | NAT | TF | 79 to 81 | 2 |
| 42 | MCQ | TF | Α | 2 |
| 43 | NAT | TF | 117.00 to 119.00 | 2 |
| 44 | NAT | TF | 73.5 to 76.0 | 2 |
| 45 | MCQ | TF | Α | 2 |
| 46 | MCQ | TF | В | 2 |
| 47 | NAT | TF | 19.9 to 20.1 | 2 |
| 48 | NAT | TF | 2.1 to 2.3 | 2 |
| 49 | NAT | TF | 6.9 to 8.1 | 2 |
| 50 | NAT | TF | -1.01 to -0.99 | 2 |
| 51 | MCQ | TF | D | 2 |
| 52 | MCQ | TF | В | 2 |
| 53 | MCQ | TF | Α | 2 |
| 54 | NAT | TF | 3.50 to 4.00 | 2 |
| 55 | MCQ | TF | Α | 2 |
| 56 | MCQ | GA | D | 1 |
| 57 | MCQ | GA | D | 1 |
| 58 | MCQ | GA | D | 1 |
| 59 | MCQ | GA | В | 1 |
| 60 | MCQ | GA | Α | 1 |
| 61 | MCQ | GA | С | 2 |
| 62 | MCQ | GA | D | 2 |
| 63 | MCQ | GA | С | 2 |
| 64 | MCQ | GA | В | 2 |
| 65 | MCQ | GA | Α | 2 |