

MARKING SCHEME FOR PSYCHOLOGY PAPER ON 9/10/17

Q.NO	DESCRIPTION	MARKS
1 a.	Gardner's Concept of Multiple Intelligences (reference to savant syndrome): Naming and description of the different kinds of intelligence according to Gardner	08
	Discussion of the importance of g factor and intense practice in exceptional attainments and expert performance (1 mark +1 mark)	02
	Total	10
b	Explanation of the terms heuristic and availability heuristic	02
	How availability heuristic influences judgments and decisions with relevant examples/research	03
	What is overconfidence?	01
	Relevant examples of the role of overconfidence in decision making, accomplishments and overestimations	03
	Adaptive value of overconfidence	01
	Total	10
c	Examples of comprehension and communication in animals	02
	Research on apes and chimpanzees: sign language	02
	Issues raised by skeptics on whether other species really have language	03
	Kanzi's understanding of syntax	01
	Answer to the question, dependent on what we mean by language	02
	Total	10
2a.	What is subjective well-being?	01
	Adam Kramer's study tracking positive and negative emotions in people, briefly the various negative events that trigger bad moods, the eventual balancing out of emotional ups and downs (rebound) over the long run and even over the day	02
	Watson's research on average levels of emotion across the day Trauma and tragedy: resilience and capacity to adapt	02
	Correlation of wealth with well being- Diener (02 marks) Diminishing returns phenomenon relation to wealth and happiness (03 marks)	05
	Total	10
b	Labelled diagram / flow chart of biopsychosocial levels of analysis	02
	Explanation of the biological, psychological & socio-cultural influences influencing what, when and how much we eat (03+03+02 marks)	08
	Total	10
c	Explanation of the difficulty in ascertaining emotional differences in emotion from heart rate, breathing and perspiration; Example of brain scans and the <i>insula</i>	03
	Facial expression and subjective experience differences in emotions, subtle physiological and brain pattern distinctions: fear and rage, fear and joy	03
	Difference in their brain circuits- anger and fear, disgust, depression vs. positive moods	04
	Total	10

3a.	Naming and Description of each of the Big Five factors <i>Note: Mere naming of the Big Five factors with no further description or elaboration (02 marks)</i>	05																																																																								
	Explanation of the stability and heritability of the factors (1mark +1mark)	02																																																																								
	Big Five Predictability of other behavioural attributes	03																																																																								
	Total	10																																																																								
b.	Briefly learned helplessness and personal control from the social-cognitive perspective; Explanation of the concept of learned helplessness with the experiment by Seligman	04																																																																								
	Some real life examples from prison study, workers and nursing home patients	02																																																																								
	Briefly, thriving under conditions of personal freedom and empowerment	02																																																																								
	Excessive freedom and choice and decisional paralysis	02																																																																								
	Total	10																																																																								
c.	What is self-serving bias? Examples of self-serving bias (01 mark+ 02 marks)	03																																																																								
	Research findings on self-serving bias (at least five)	03																																																																								
	Dark side of self-serving bias and self esteem: authentic pride vs. threatened egotism: study by Bushman and Baumeister (02 marks); Self focus, empathy and narcissism (02 marks)	04																																																																								
	Total	10																																																																								
4.	SD = <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>X</th> <th>X²</th> <th></th> <th>X</th> <th>x</th> <th>x²</th> </tr> </thead> <tbody> <tr> <td>40</td> <td>1600</td> <td></td> <td>40</td> <td>9.75</td> <td>95.0625</td> </tr> <tr> <td>35</td> <td>1225</td> <td></td> <td>35</td> <td>4.75</td> <td>22.5625</td> </tr> <tr> <td>25</td> <td>625</td> <td></td> <td>25</td> <td>-5.25</td> <td>27.5625</td> </tr> <tr> <td>30</td> <td>900</td> <td></td> <td>30</td> <td>-0.25</td> <td>0.0625</td> </tr> <tr> <td>29</td> <td>841</td> <td></td> <td>29</td> <td>-1.25</td> <td>1.5625</td> </tr> <tr> <td>25</td> <td>625</td> <td></td> <td>25</td> <td>-5.25</td> <td>27.5625</td> </tr> <tr> <td>33</td> <td>1089</td> <td></td> <td>33</td> <td>2.75</td> <td>7.5625</td> </tr> <tr> <td>25</td> <td>625</td> <td></td> <td>25</td> <td>-5.25</td> <td>27.5625</td> </tr> <tr> <td>$\Sigma X = 242$</td> <td>$\Sigma X^2 = 7530$</td> <td></td> <td>$\Sigma X = 242$</td> <td>Σx^2</td> <td>209.5</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Mean = 30.25</td> <td>$\frac{\sqrt{\Sigma x^2}}{N}$</td> <td>$\frac{\sqrt{209.5}}{N}$</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>= 14.47411</td> </tr> </tbody> </table>	X	X ²		X	x	x ²	40	1600		40	9.75	95.0625	35	1225		35	4.75	22.5625	25	625		25	-5.25	27.5625	30	900		30	-0.25	0.0625	29	841		29	-1.25	1.5625	25	625		25	-5.25	27.5625	33	1089		33	2.75	7.5625	25	625		25	-5.25	27.5625	$\Sigma X = 242$	$\Sigma X^2 = 7530$		$\Sigma X = 242$	Σx^2	209.5				Mean = 30.25	$\frac{\sqrt{\Sigma x^2}}{N}$	$\frac{\sqrt{209.5}}{N}$						= 14.47411	07
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		$(\Sigma X)^2$	58564	7320.5						
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		14.47411								
	Range = 40-25=15									01
	z score = $\frac{X-M}{SD}$ $\frac{40-30.25}{14.47411}$ $=\frac{9.75}{14.47411}$ $=0.673616$									02
	Total									10
b. (i)	Mean = 03, Median = 03, Mode = 01									07
	Scores									
	46									
	45									
	42									
	40									
	39									
	38	Median	37.5							
	37									
	33									
	31									
	29	Mode	29							
	29									
	29									
	Sum = 438	Mean = 36.5								
	Definition of 'mean', 'median', mode (01+01+01 mark)									03

		Total	10
c.	Explanation of Type 1 error		02
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	Avoidance of decision errors (Type I = 03 marks, Type II = 03 marks)		06
		Total	10
5a.	Confirmation bias: explanation of the term, Wason's research, examples		04
	Fixation, explanation of the term, examples		03
	Mental set, explanation of the term, examples		03
		Total	10
b.	Explanation of the instincts and evolutionary psychology perspective		03
	Explanation of drive reduction theory, concept of homeostasis and role of incentives in motivation.		04
	Explanation of the optimal arousal theory of motivation; relevant research, examples		03
		Total	10
c.	Personality inventories: explanation of the term, assessment techniques in trait theory		03
	MMPI → Minnesota Multiphasic Personality Inventory		01
	Brief description of the test, explanation of empirically derived test		03
	Objectivity of personality inventories		02
	Social desirability and the Lie scale		01
		Total	10
d. (i)	Scores arranged in order and tabulation columns correct (score → x and f → frequency = 2 marks; accuracy in frequencies = 4 marks)		06
	Frequency Distribution		
	x Frequency (f)		
	51 2		
	52 2		
	53 4		
	54 7		
	55 7		
	56 4		
	57 2		
	58 2		
	Tot al 30		
(ii)	Histogram: explanation of the term (01), illustration with diagram (01)		02
	Frequency polygon: explanation of the term (01), illustration with diagram (01)		02
		Total	10